

7530-00-222-3521
FEDERAL SUPPLY SERVICE
(GPO)

E. S. Morton
National Zoological Park
Washington DC 20008

202-673-4828

3065 - 6 line

June - 21 June

Inst. 6-1 by
7 June

July 7-12

July 21-26

Aug 5-10

0 banded 3 young from nest nr Holt House
on May 4 - self-fledging age ca 12 days
old.

Tape recorded pizets & wheeze on 6 May.

11 May - took 3 young from Bangert's nest -
ca 10 days old.

May 12:

The 1st set of young (Holt House or HH)
are now nearly fully feathered, tails nearly
grown out & are active exploring and
flying & hopping agilely. I banded one
yellow right that I heard sublinging
last Sunday morning when I had them
at home. I have not heard any since.

Finished the PB tape w/ 70 Flax Wd songs
plus the Heron Dtl imitation of Hlow Pine
Warbler and the Mexican Towhee imitation.

May 18 - 2 of the Holt House wrens are
sublinging! Red & yellow band -
Red began Sunday (17th) at the same time
he refused to take food from forceps &
became much more timid!

This began with Red on Friday the 15th —
he feeds himself — while the other two
still beg for food even though able to
self-feed. Red seemed a day younger
than the others but did not seem shier
while a dependent fledgling than
the others — the reverse of anything.
These are ca 24 days old now.

The other 3 young from Baugerts are fine
but no subsong yet - still give
loud pyee-ty + food begging yees
Have kept them in small cage

Am now regging the final tape.

May 19 Finished PBtape!

† One bird from 2nd Brood sub-range
in Am.

May 20 Plored yellow + unbanded ♂♂ from 1st brood in isolation chambers, transferred the ♀ from brood 1 to 134 large flight, + the 3 yearlings of brood 2 to the wire cage where brood 1 was previously.

Banded 1 brown & from Wood 2 Red/orange
another blue.

"Her" in chamber 3 released at HR
on 20 Aug 81 - banded Y/R right

"Whimp" in chawls, released at HL
on 20 Aug 81 - banded as before R/W
Left leg -

Redhead (Chamber 4) placed in room 34
w unbanded ♀ - he was banded pink left
was ad undertail cover to -

Both birds (young of the year) remained in their cage - Redhead not doing well as company in their age (2 days old) ♀? 8/10/11
hatched young - right

Apr. 30 1886 TND

100

64553

SEP 27

3.

A hand-drawn sketch of a person's head and shoulders, showing facial features like eyes, nose, mouth, and ears, along with some decorative elements like a headband or hair.

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$
 $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$

27-85

✓ Shrimp carrying nesting
MAY 14

Note G-W/O - 8' Strongly
...
...
...
...
+ ... or ...
... ..

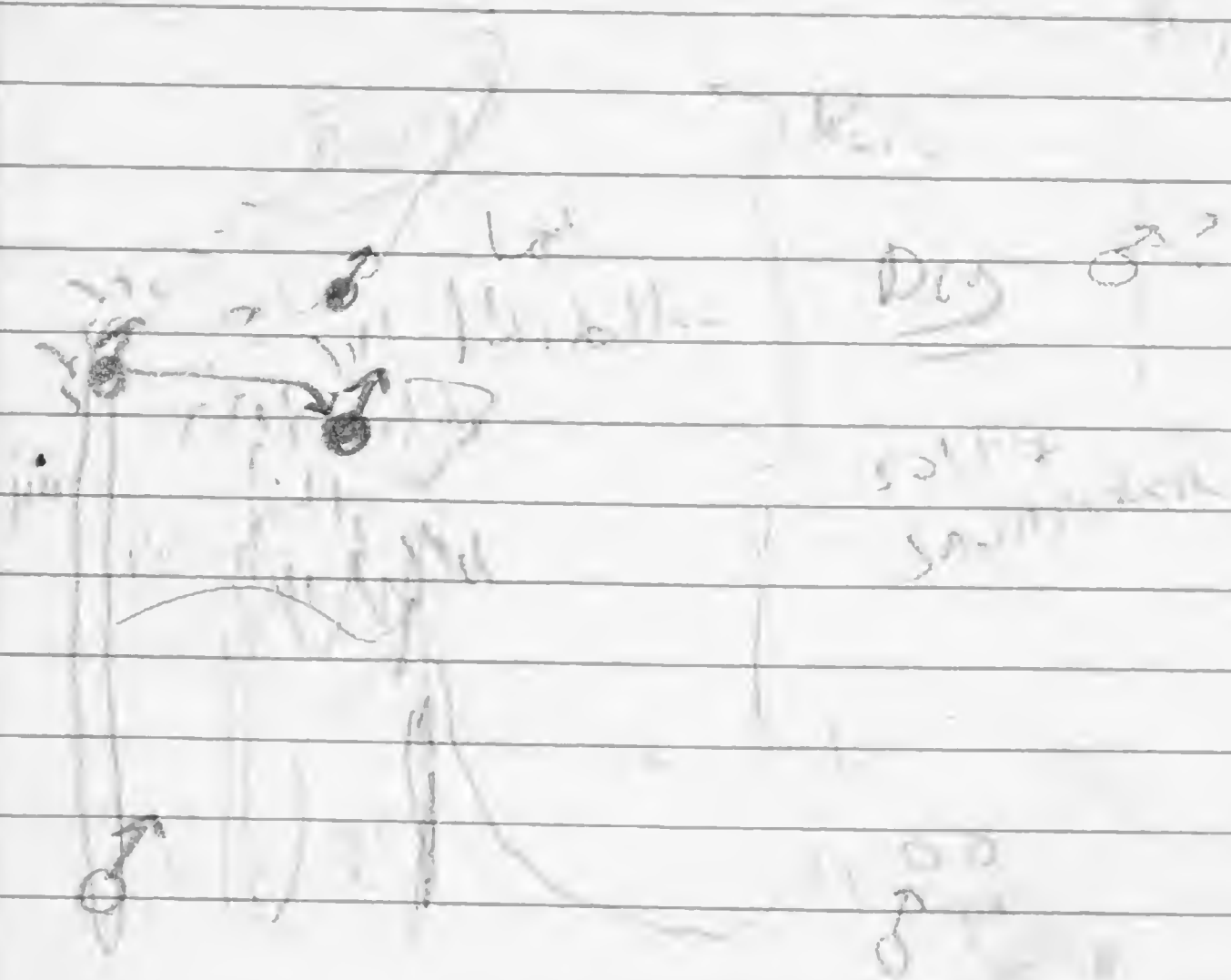
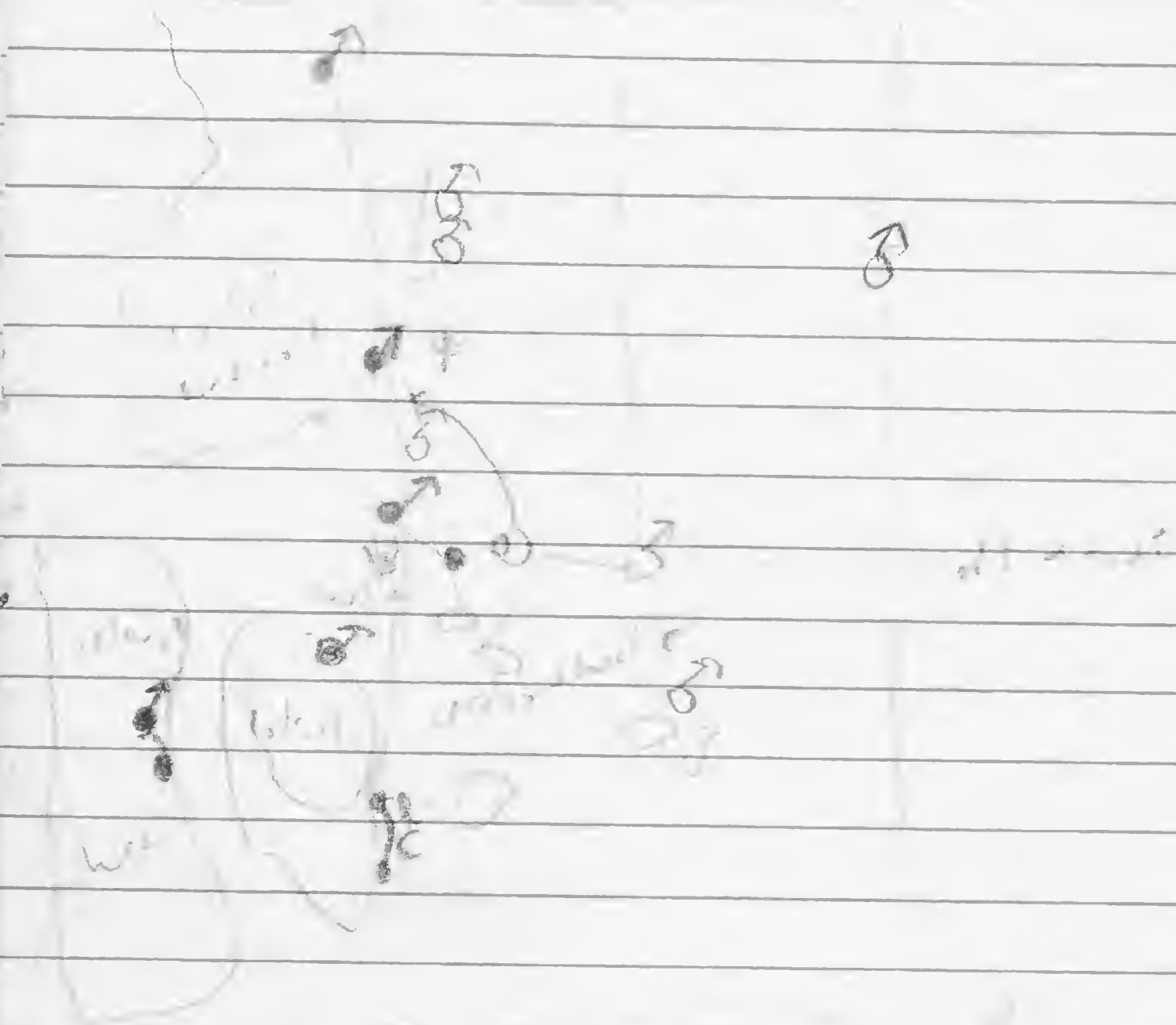
2942

10

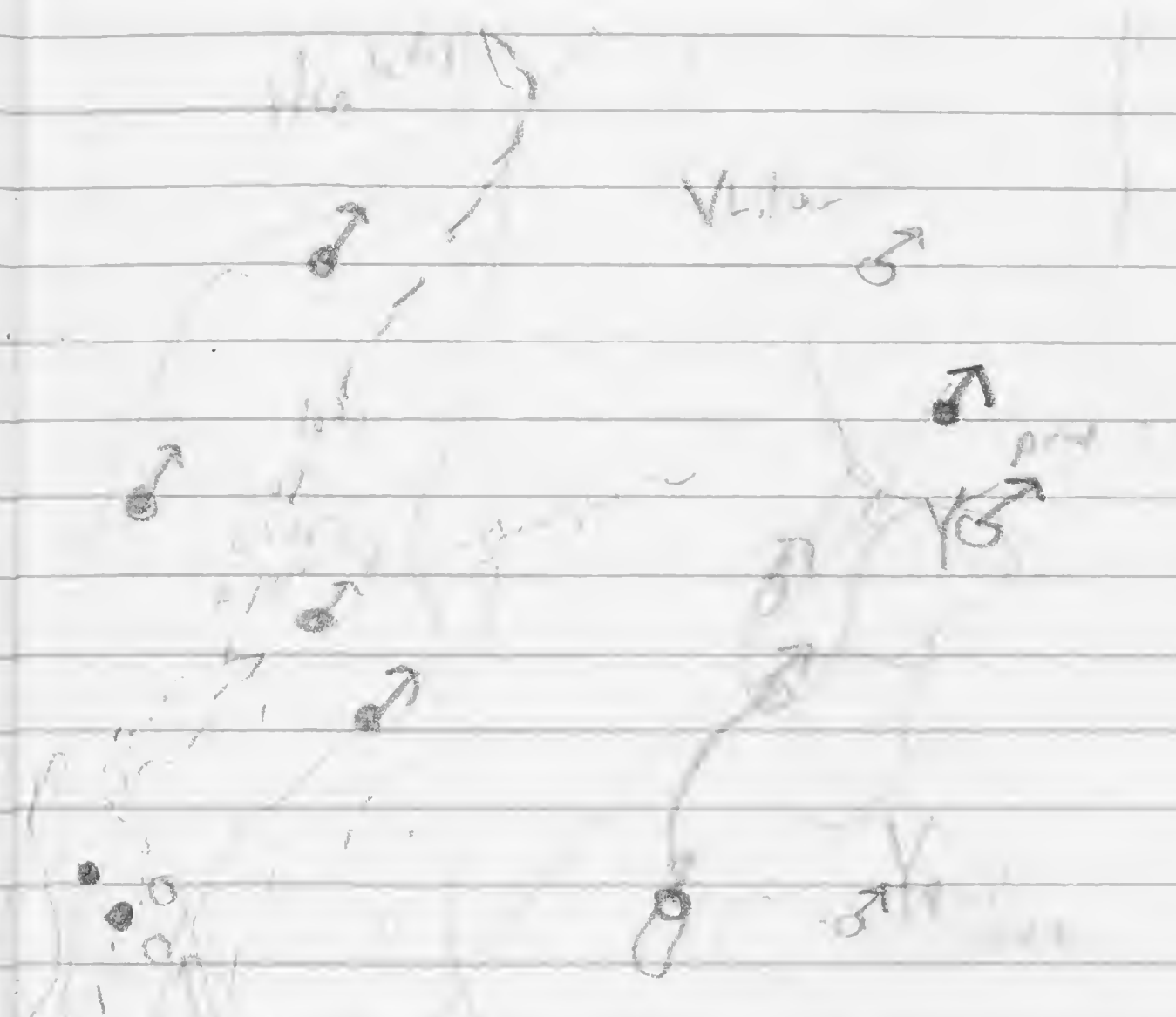
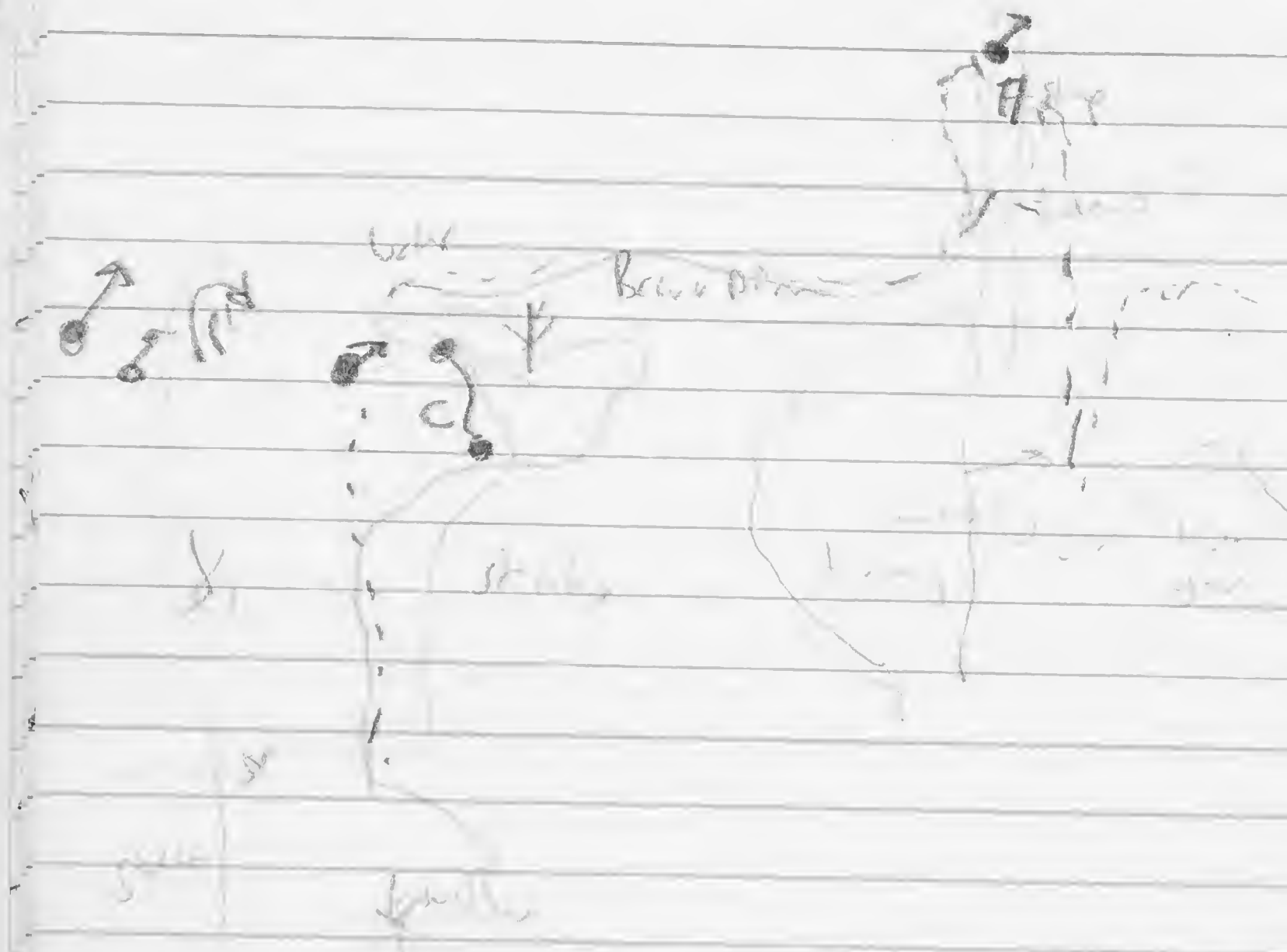
2

Read over a very dry
much drier than last week

little prairie activity



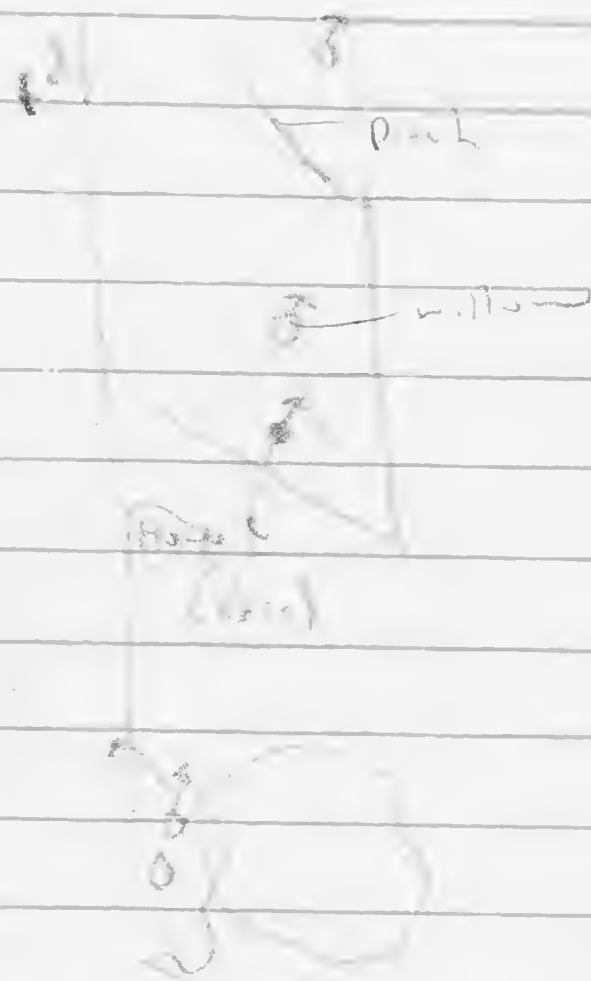
Brown Lake But



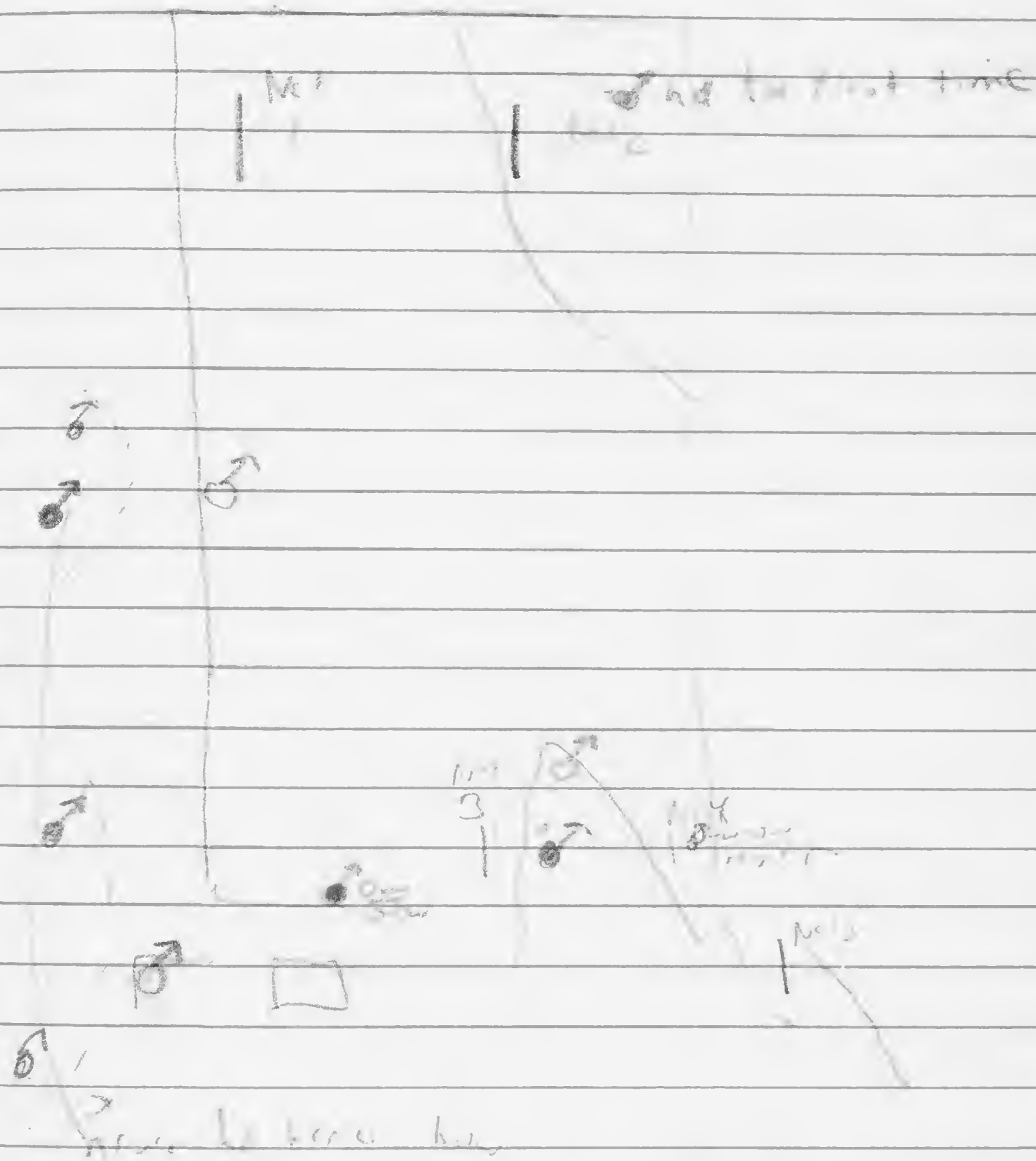
around thick shrubs & dry

1 May 1964

Field



1 May Breeding in Field I
6-10:00 am



16

F

42k 6 ♂ Blue heron song
behind lake on background
for 2 hrs.

6:30
of

7³⁰

P-PRAP Song on/off w/ ♂ relevant

Reap Song ♂ Reap/w/ P cp relevant
Net 3

Reap Song P-PRAP Net 6

(E)-1

Reap Song on/off w/ Net 3
E-2

Emitted gently start with
for 30 sec

fecul?

Song P-PRAP/66 379
Net. 2 64 min

Song 1 crown Blue/Blue min 1.1
66380
Net 3

Song Net 15 66
lg/esc 321
61 min 218 E-3

lost Song 1 lost Song 41

May 1 (afternoon) 2:30 -

Net 90 Song Sparrow 23g
62 mm

W-W 66-392

with egg laid

place where nest was

being built yesterday

rounded tail

New nets

Felt 2

	1/8
1/10	1/9
1/11	
1/12	

1/12 - 10 gulls

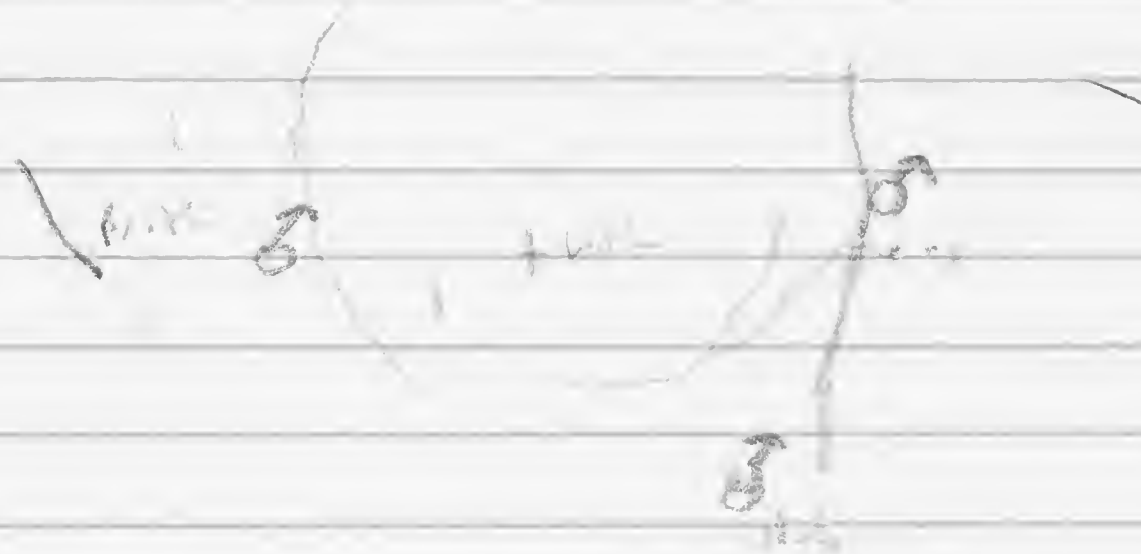
Red Red 3rd - Red 18 - 3

light red in net 4 in 5 mm

(A



red



Net 11 - Sing 28-w/Bl-w 383
4/12/68 68 mm 6cp

Round tail feathers

Nothing, Field 2.

20

3-14

17

41

113

9

3

13

Long Island
Ferry Company

810

27

11: power 50

62-2-

1901

21. 7. 1. 2

hard to little wear

Net 11

Feb 2000

Alouatta - captured birds



see the 1st song sparrow

today was much too noisy
 all birds looked a bit
 nervous

May 4

Song ♂ cp Net 14 64mm

U-O

~~2~~ 3
 19

66 35mm

Round tail

Song ♂ cp/B-w 100g
 13
 { Song B-w/B-w 4* crown
 ♂ Black throat

♂

White tail

white

cp

19

bringing

12.5g

Song Net 16 q?

64mm 676

63mm

Round tail

Serg 9.3 52 mm (cuttle)
W-nd Rong

M-514

Net 4.1

Mamm/Alu 66/388 21g

6

Serg 4 R-6/R-10 66 389

Net 4.1

16

61 mm

24g
Feb

Serg 1/2 1/2

Wg 1/2 333

66 388

61 mm

22.9g

Wing 1/2

Serg Net 19 10/15 30 26 mm

Stomach 1/2
15.5g

2.1 mm
15.5g

Notes

O-O Serg reg Net 19

BL-W/BL-W Serg reg Net 16

1.5 kg 1/2 1/2 1/2

6.1 mm

BL-W/BL-W 3-3 1/2 Net 9

Wm Serg 1/2 1/2 Net 20

Serg 1/2 1/2

4-4 66 388

61 mm

23g 100% tail

W-1/2

Serg R-9/R-9 66 388

39 mm post 23.5g

1/2 1/2

Sample No 13 3 rows
 50 mm wing
 18 g

W-W 24.34

Sample (by crop) ~~sample~~ 1/3 2/3

68 mm 23.1 g
 100 mm

Blk. at 100 mm - 100 mm
 + 100 mm
 100 mm

Must be a 100 mm

May 4 100 mm

Sample 11 100 mm 100 mm

good catch - 100 mm 100 mm

2.2 cm fly 100 mm

2 x 1 cm el. 100 mm

9 mm hump 100 mm

4 mm spider 100 mm

4 mm spider 100 mm

100 mm 100 mm

3 x 3 mm spider 10.1

6 mm spider 9.4

5 mm spider 9.4

10.1

10.1

9.8

10.2

Sample 15

Swamp spruce 11

7.4

7.8

8.1

8.2

Wt = .151

Forest sample loaded
with emerging fly larvae

1.2cm greenhopper

5mm fly	4mm fly
4mm beetle	4mm fly
4mm beetle	5mm pupa
5mm fly	4 fly
4mm beetle	
5mm beetle	
4mm fly	5mm beetle
5mm beetle	4mm fly
4mm pupa	4mm fly
4mm fly	4x4mm fly
4mm fly	2x5mm fly

Sample 16

12.9

12.2

12.2

12.4

11.7

11.4

2x 1cm fly

3mm beetle

7mm beetle

1.9 + 2.0
check

2x 1cm beetle
3mm 2 + 1.2cm beetle
beetle 1.5cm fly

6x 3mm fly
5mm fly

Sample 17

Swamp 2

2x 3mm

7.4

6.4

7.4

7.4

8.2

0.38

3x 4mm fly

8mm fly

4mm beetle

8mm beetle
2x 4mm beetle
5x 3mm beetle

7.1 - 20°

18 Sarg (Field 2)

8.4

10.2

11.9

.04

8.1

7.6

11.1

3 + 1.2 cm etc
P. m. 10.00

4 mm tail
5 mm m. 11
4 mm fly

14 Sarg (Field 2)

90% Sarg

8.7

1.3

1 cm bee

11.1

8.8

8.2

8 mm bee

11.1

8.9

8.1

8 mm bee
3 mm bee
4 mm fly

= .025

M₂ 4 pm 3.30

Swamp Met 13 3 crown

0-0 66

5 rounded tail

59 mm

20.5 g

Met 18

rounded tail

59 mm

May 4

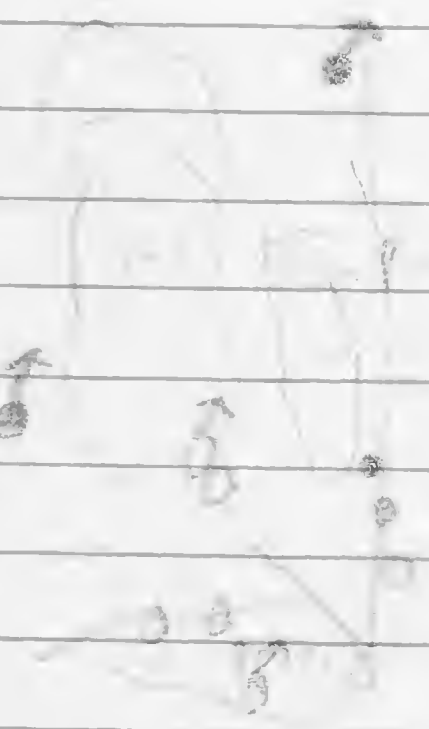
Field 2 Notes

111

ow

20

20



20

20

20

20

For field
notes

May 5 Birding

Net 18 Swamp Sparrow

→ New net 18 201 #10

~~6-11/12~~
with 6-6

New net 18

4 - Crow



New net 18

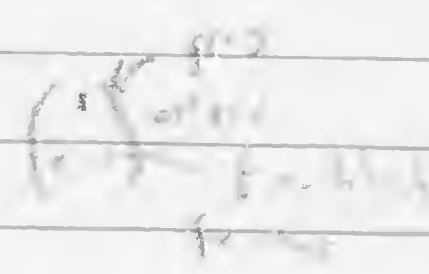
Ng

6 from

wing

Net 20

Swamp 4+



Net 21 6 from net 18

6-11/12 6-11

Net 21

Swamp 2

do 20 point

P-p 1.0 6-11

5 from

Nates

60
33
Jan 3
front
sunny
dry
0-10
7
10/10/06

Swamp

unlike to trip
at night 18 45 min
at night

Song (huh?)
at night 18 45 min
at night

Swamp P. 6 P. 6 10 p. 10
20

Swamp 10/10/06 2 10 min
10-10/06
9-10/06 66 13
5 10 min way for

May 5 insects

Simple 20 - Song Sparrow 1cm?

leaving by camp

hatched at small gauge

low level

2x 4mm hump

1mm fly

3x 4mm hump

4x 3mm beetle

4x 3mm spider

1cm fly

2x 5mm hump

4mm beetle

2 5mm spider

~~0.035~~ .0015

.0015

.0015

.0010

.050

.010

Simple 21 Swamp Warbler in firm field 2

3x 3mm spider

6mm fly

fly

unfly

22

good

2x 3mm hump

4mm hump

4mm hump

5x 3mm beetle

8mm beetle

8mm beetle

4x 3mm fly

1cm el. w

1.2 fly

4mm spider 2

3x 3mm spider

3mm hump

23 5 p (p)

4x 4mm

fly

3x 3mm

4x 4mm beetle

10 5mm flies, 10

7 3mm hump

1x 1.2 cm el. w

5mm spider

6mm fly

4mm hump

Blue Bird

14? (see song 16)

25 Song Sparrow

1cm hatched

.0035

6x 5mm m. d.

7mm fly

1mm spider

un = song 16

1.2 cm el. w

1cm el. w

8mm caterpillar

3x 4mm

hump

4x 4mm m. d.

4mm

.024



Below the road

on the side of

road

was a bird

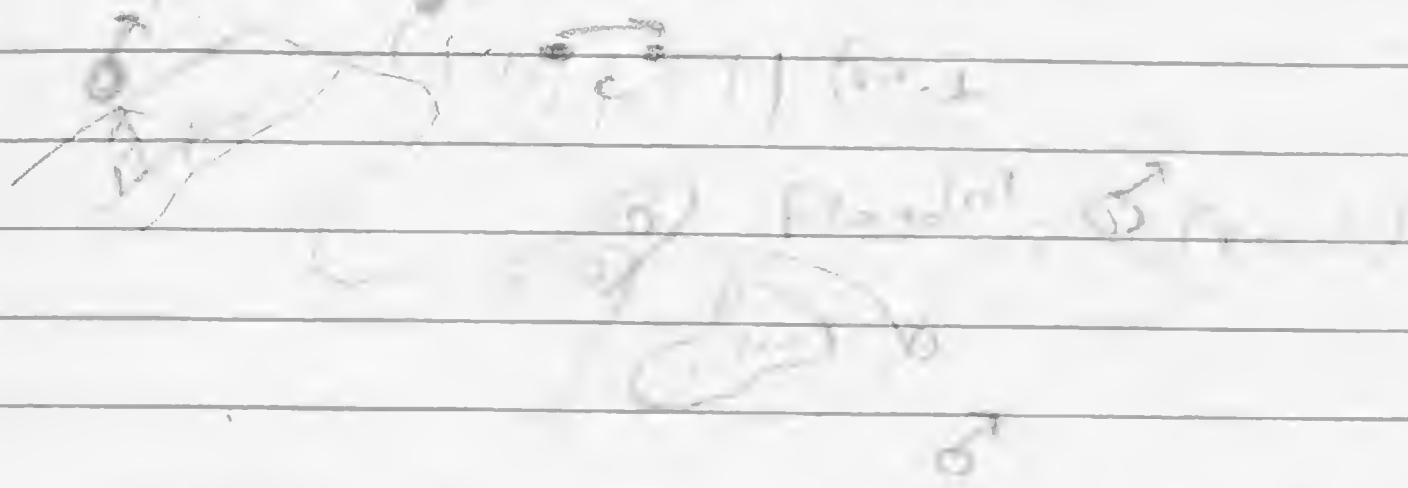
and a few

in the

May 6 800-

Cloudy & rainy
rude-people & birds

New cage built



have
a few

Some of the (5 or 6)

Handwritten notes on lined paper, including a large '3' in the top left, a small '3' in the middle right, and the word 'pyling' at the bottom.

2000-2001

Ch. 1: 1-10

[Faint handwritten notes and markings]

Netting M, 9 G-1330

Net by road

BL

10-7

Sarg BL/BL 65-356

61 mm

measured

25.5g

Sarg black dry pond

6-6/6-6 307

measured

Sarg black dry pond

BL/R 167

61 mm

Sarg

"Dry pond"
"1 crown"

BL/BL
65-15

herm

61 mm 11.5g

Sarg by pond with

W-R/L-6

65-16

measured?

61 mm

24.2g

re-sighted
5/14/00
g/l/c

↑

Sarg same net as above

6-6/6-6

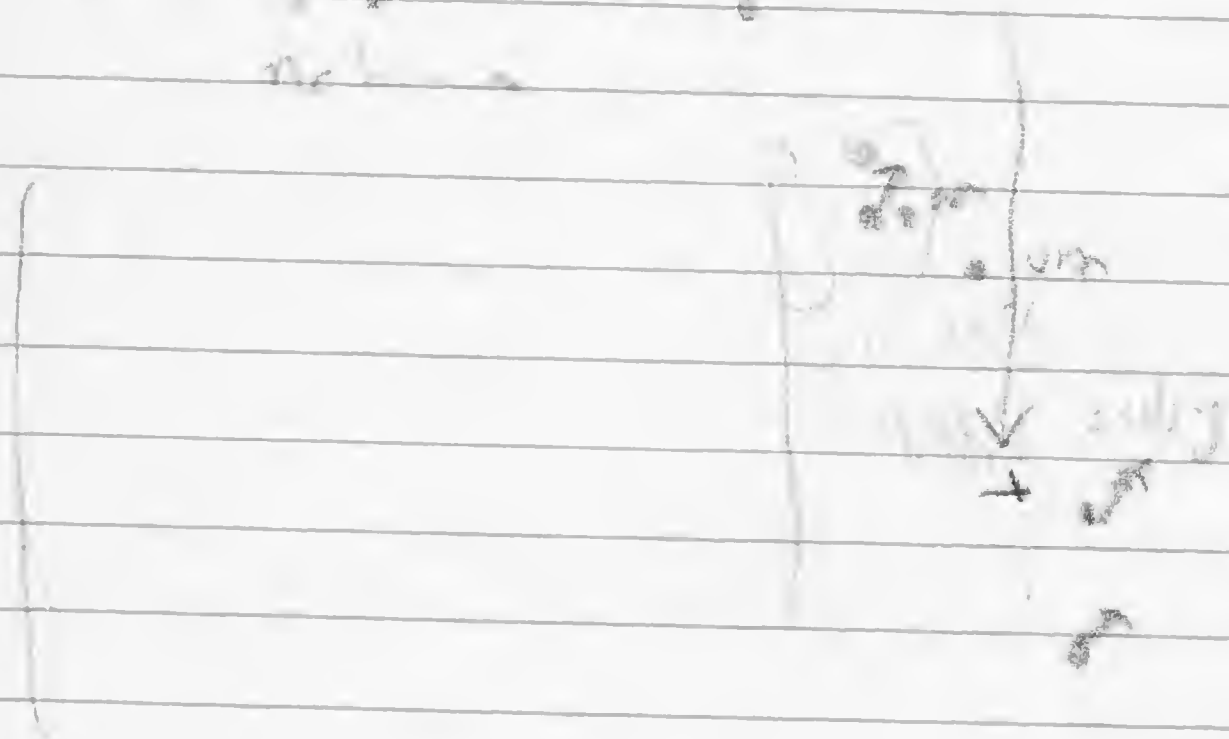
66-226

61 mm

17g

Net ~ 1000 ft
 at 10 ft
 caught 2 swamps in

10 ft / 1000 ft
 net



Swamp 10 ft / 1000 ft 6618
 10 ft - 1000 ft

10 ft / 1000 ft

10 ft / 1000 ft

Swamp (1000 ft) 6619
 51 mm
 15.5 g
 1st crown

Swamp 10 ft / 1000 ft 6620

10 ft / 1000 ft

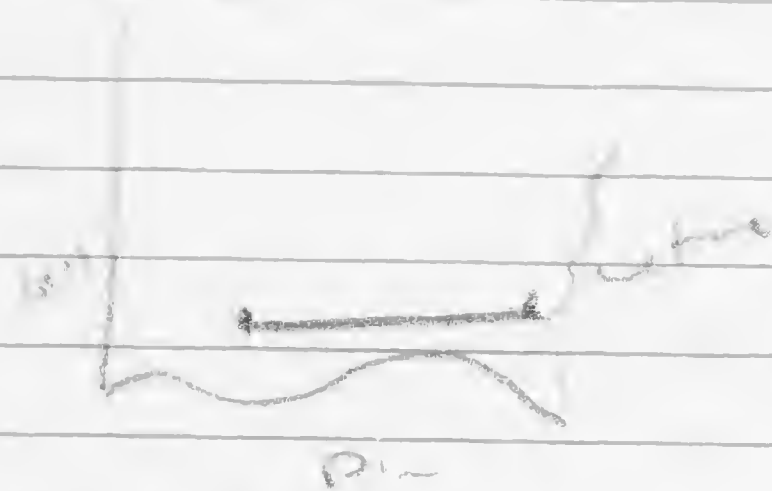
10 ft / 1000 ft
 15.5 g

15.5 g

10 ft / 1000 ft caught at
 10 ft / 1000 ft

5 sparrows light or

Brown Diamond



4 Swaps + 1 Song

Strong 1st - 1st 90

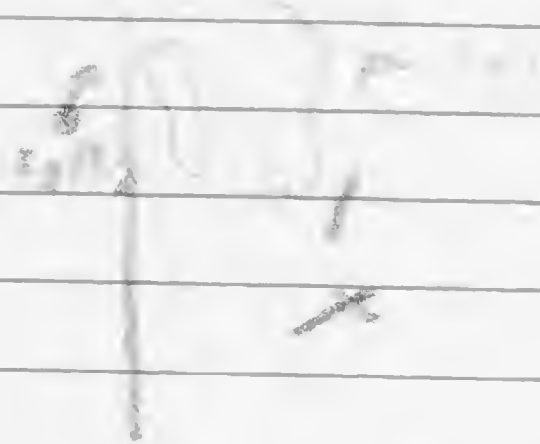
Song L/P 66 17
66 mm
Rounded tail

Jump P/W 66 22
64 mm
Rounded
4 mm

Strong L/O 66 22
64 mm
Rounded tail 4 mm

Strong L/P 66 22
64 mm
Rounded tail 4 mm

Swamp (Swamp Lake)



G-W/BZ

66-25

Swamp (light green)
dark green

light green - light green



Swamp Blue blue resp -
same old

Swamp R6/R-b resp

for next up (same old)

2 different swamps

Swamp with Swamp Lake

3rd one by Swamp Lake

1st one at Swamp Lake

on all 3 swamps

Swamp Lake - light green

light green - light green

light green - light green

light green (Swamp Lake, 4 R6 Rb)

(Swamp Lake)

Swamp Lake - light green

light green - light green

(only a sample at

Sample are shown, say

location (New/1000)

8/1/10 - 4 in area

not at area and water

lots at 1000

so far

45 springs

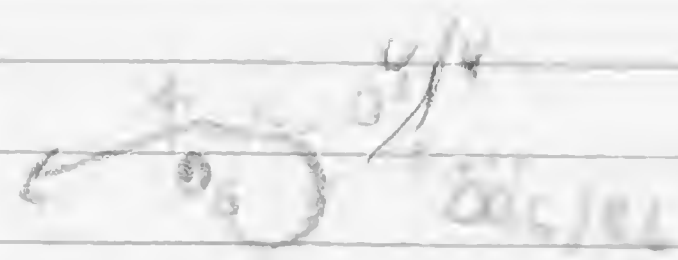
North, 5th 7:00-7:30

Sample 10-10-10 5522
H. 1000 3
1000 1000
1000 1000

Resisting Bridge, 1000

1000 - per
1000 - per
1000 - per

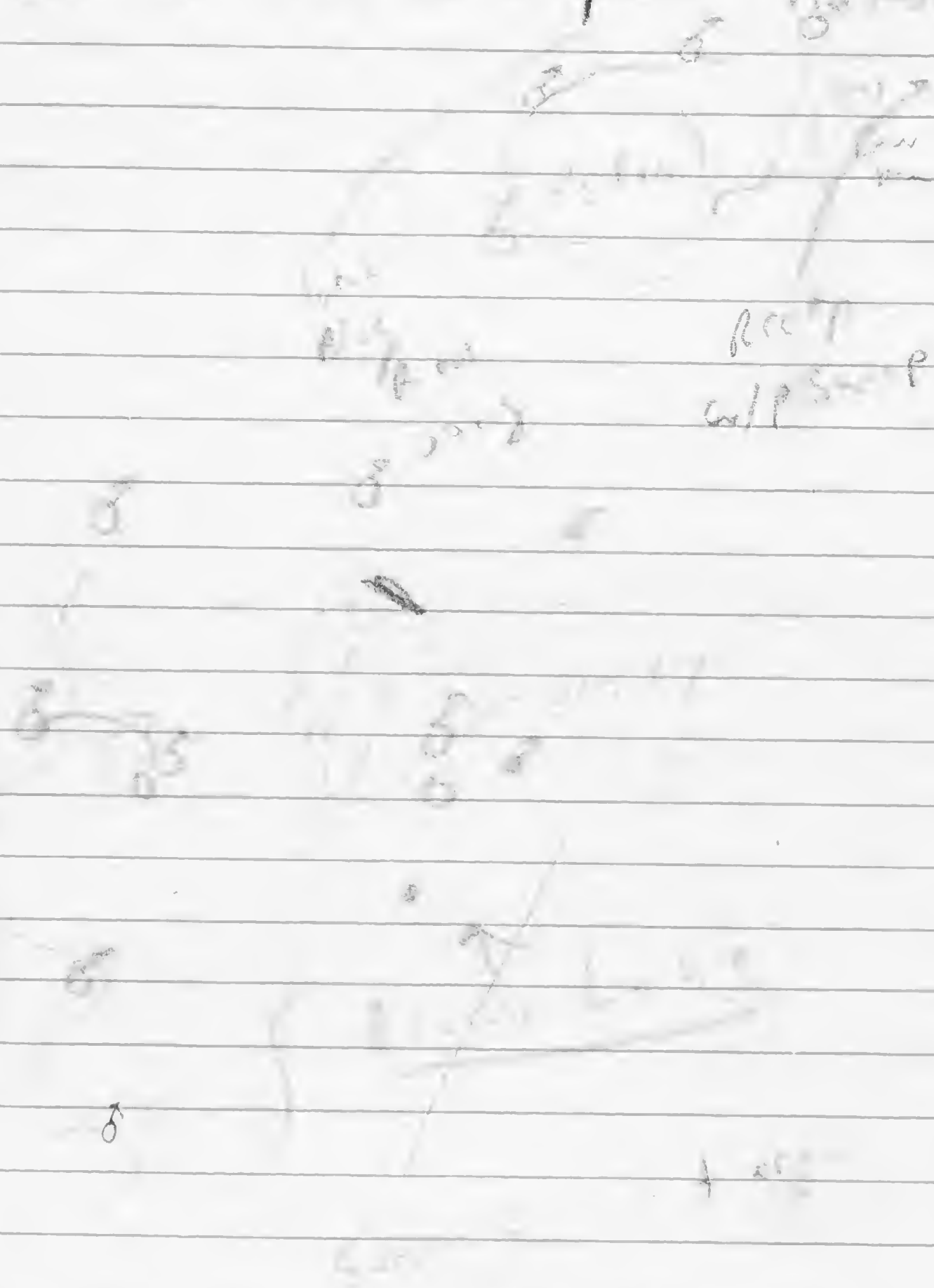
(Optical, 1000)



distance at 1000

1000 - 1000

Remains in the same place



was with Swamp
school to
get

May 10 sat

by Beaver Dam

Swamp Sp. 8:18 5622

Swamp

Swamp

Swamp Sp. 8:18 5629

Swamp

Swamp

by hollow - Beaver Lake

Swamp 8:31

Black

Swamp

Swamp

Swamp

Swamp 8:30

Swamp

Swamp

Swamp

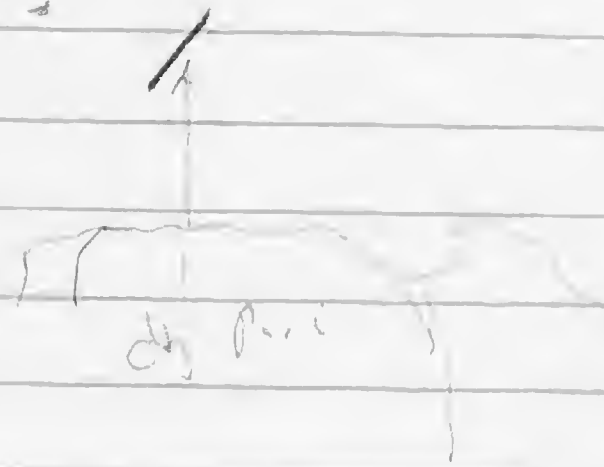
Song - by ... in
Rough Pond

24/10/82 25-32

55 min

2.2

0.5



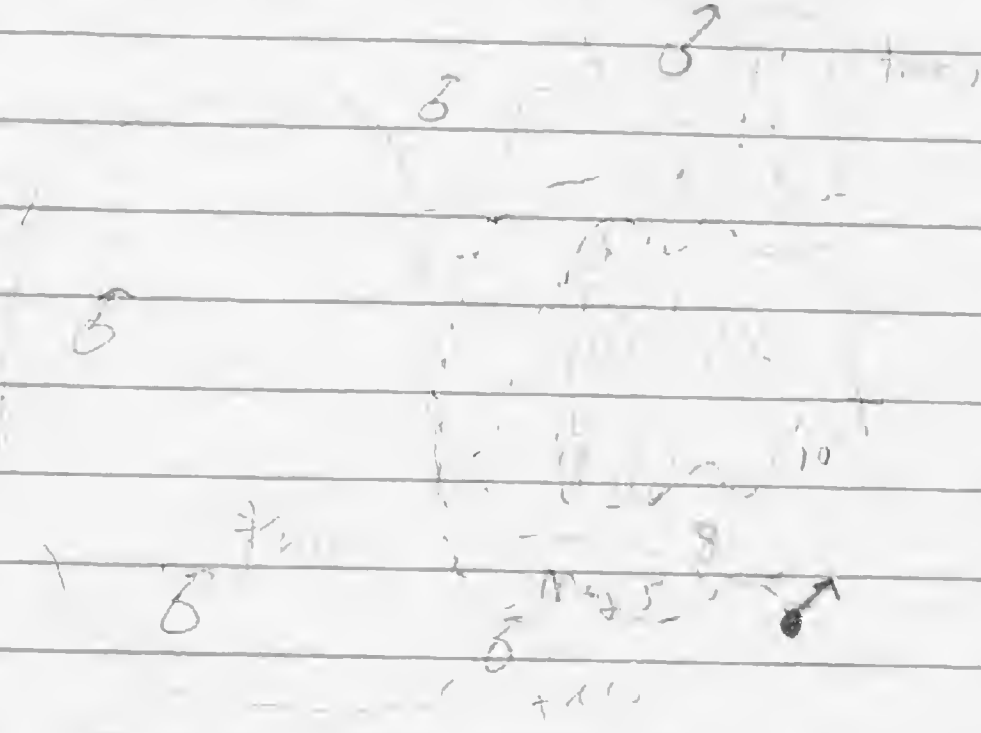
0/2 66 23

62 min

2.2

re-plant in ...

Important Notes:

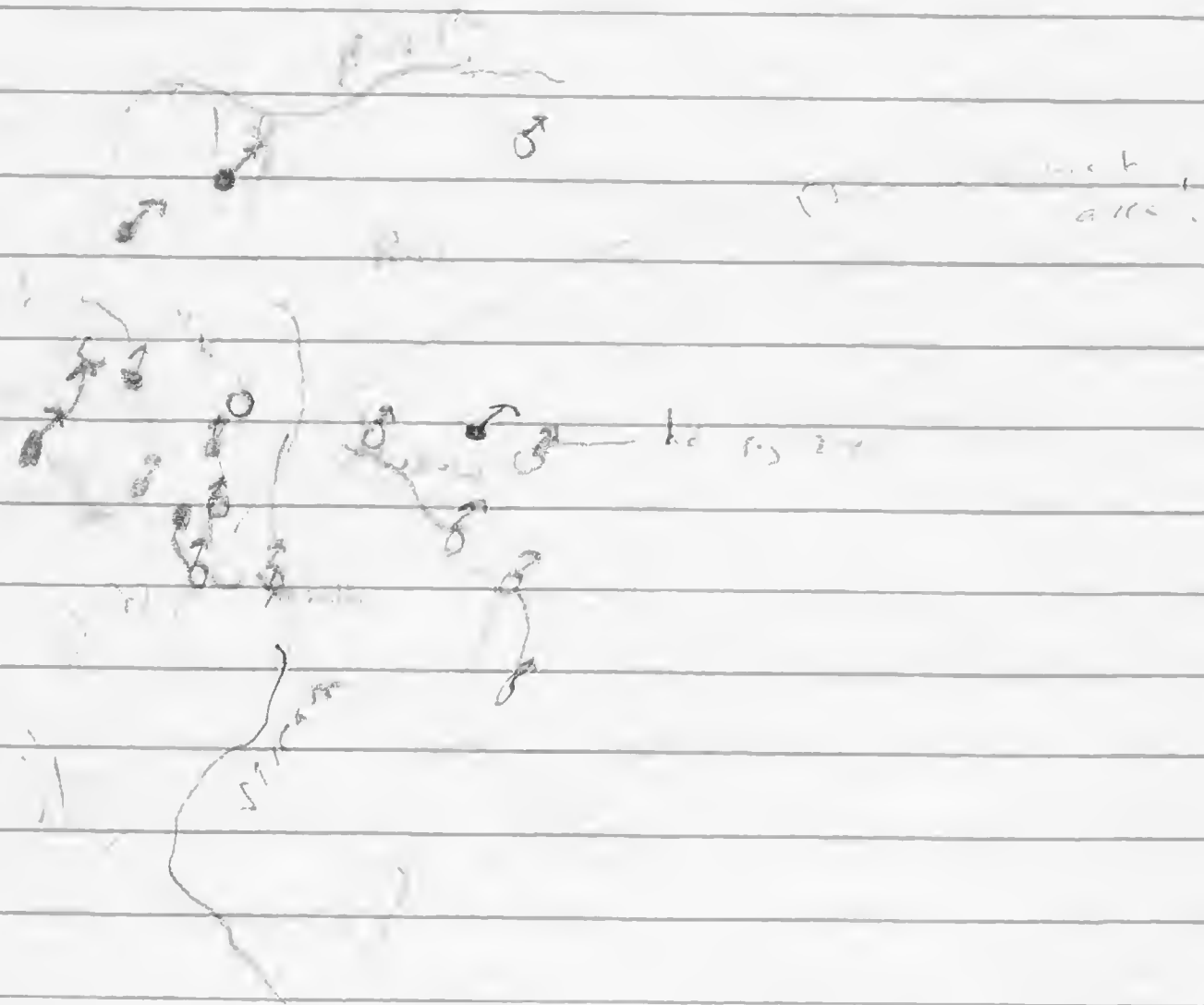


This dry pond ...

... 3 days

Swamp Sparrow ...
on 9/10 saw a few birds feeding
in swamp ... 10 M ...
bird song

Caught 8 10 Swamps in
 area behind river dam
 with only 3 traps -
 indicated lots of mud



One "insect" Swamp behind dam
 with all the traps

Lots more Swamps in
 in big area

Swamp captured on Son
 Side of River



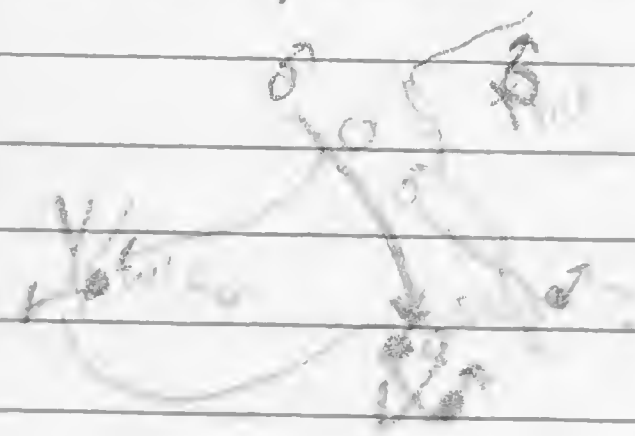
Swamp captured on Son
 side of River

L Saw Swamp 8 by dam (1)
 may be the same as 10/2

2) Song Pr came down
 low low fairly long
 both was into song

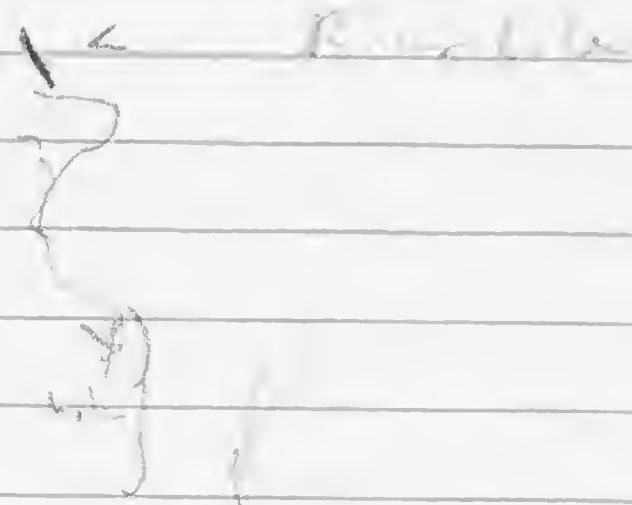
Song, then to
 new point song
 short - then song
 both put in a song
 next to each other
 Song, then song

Song remained + song



Lower song followed - song
 into song song

Song 2 by 2 in



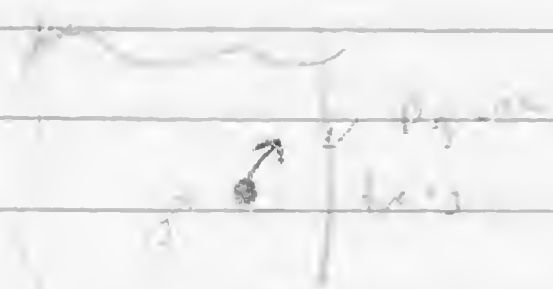
Red Red 6634

65 mm by

4 crown

corra? full

Saw 1 bird Song 2 by 2 in

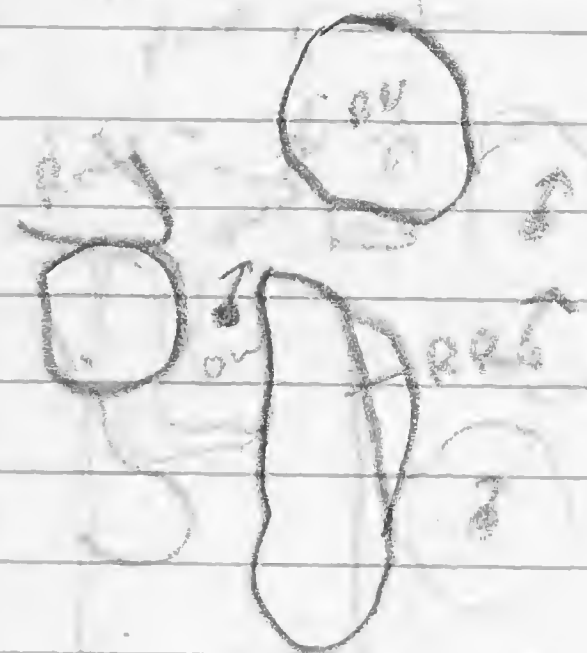
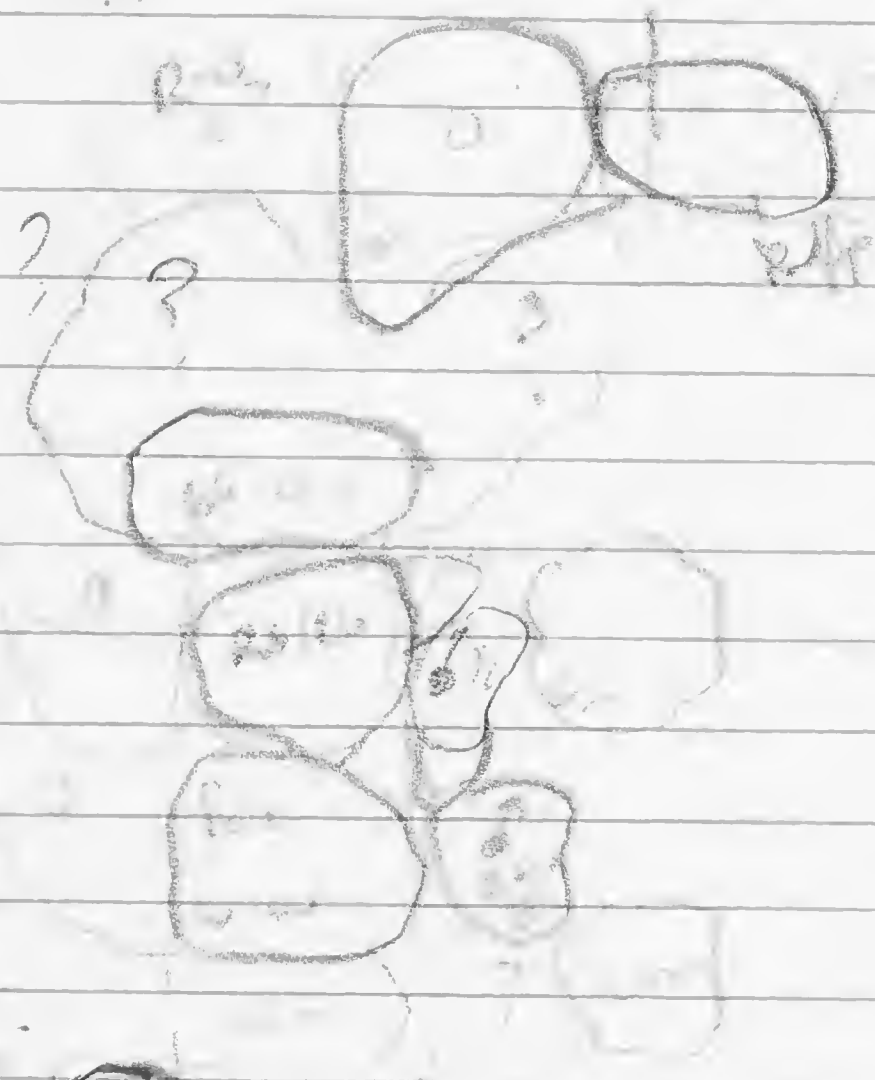


Lower song followed - song

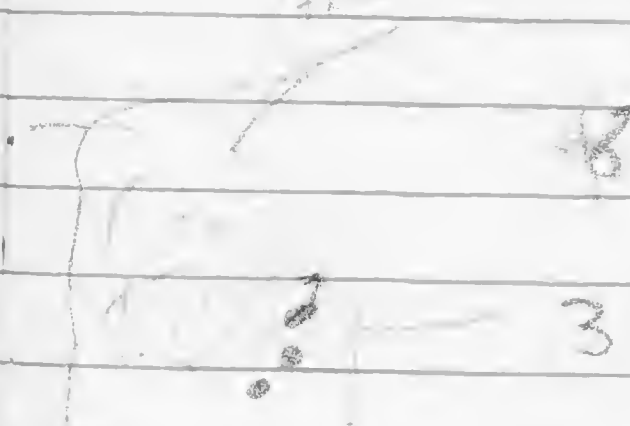
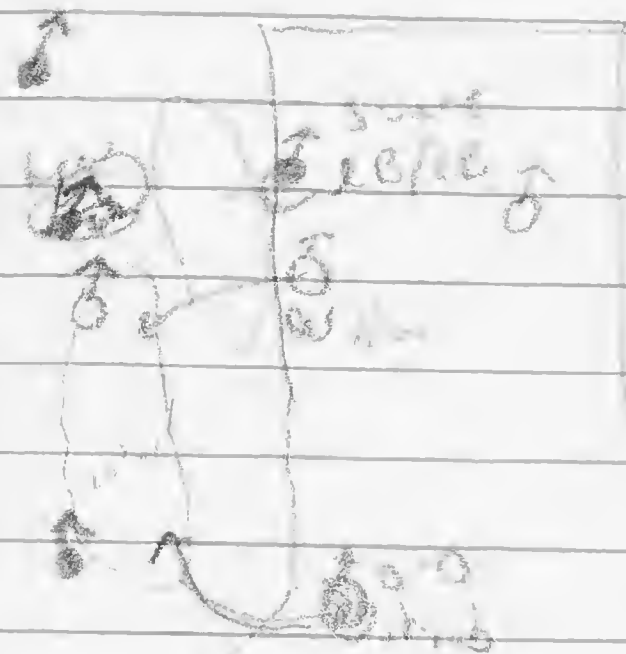
into song song

By Pr 11

Page 10 of 10



M. 10 3- 10/10



35000
 1st (G 14' 15")
 2nd (G 14' 15")
 3rd (G 14' 15")
 4th (G 14' 15")
 5th (G 14' 15")
 6th (G 14' 15")
 7th (G 14' 15")
 8th (G 14' 15")
 9th (G 14' 15")
 10th (G 14' 15")

Brown Pond 4.11.13

5.00



See also the map on p. 101

2nd map of pond



Examine 6/10/41
Swamp Y-R/W 66 41
P. 1000 6/10/41
6/10/41
2/10/41

Swamp after B. 6/10/41 66 50
6/10/41
6/10/41

Swamp 6/10/41 66 50
6/10/41
6/10/41

revised
5/14
with um
in field

Swamp 6/10/41 P. 1000 66 32
6/10/41
6/10/41

Swamp 6/10/41
6/10/41
6/10/41

Swamp 6/10/41 66 32

Swamp 6/10/41 66 32
6/10/41

Swamp 6/10/41 66 32
6/10/41

Sung 4/10 4/10 8/10 2/10

Sung 10/11/11 10/11 10/11

Sung 10/11 10/11 10/11

Sung W/R - 4/10 66-58
W/R 5/10
W/R

~~Sung~~ Song W/R Below
Below 10/11 6/10
6/10

Sung E/R 10-16 6/17
5/1 mm

Sung W/R 10-16 6/17
5/1 mm
2/10

Sung R/R 10/11 10/11

Sung 10/11 10/11 66-43

♀ 6/10
4-10 10/11 10/11
R/R 10/11

Sung 10/11 10/11 10/11

6/10
Sung P/B 10/11
10/11
R/R 10/11

R/R 10/11 10/11

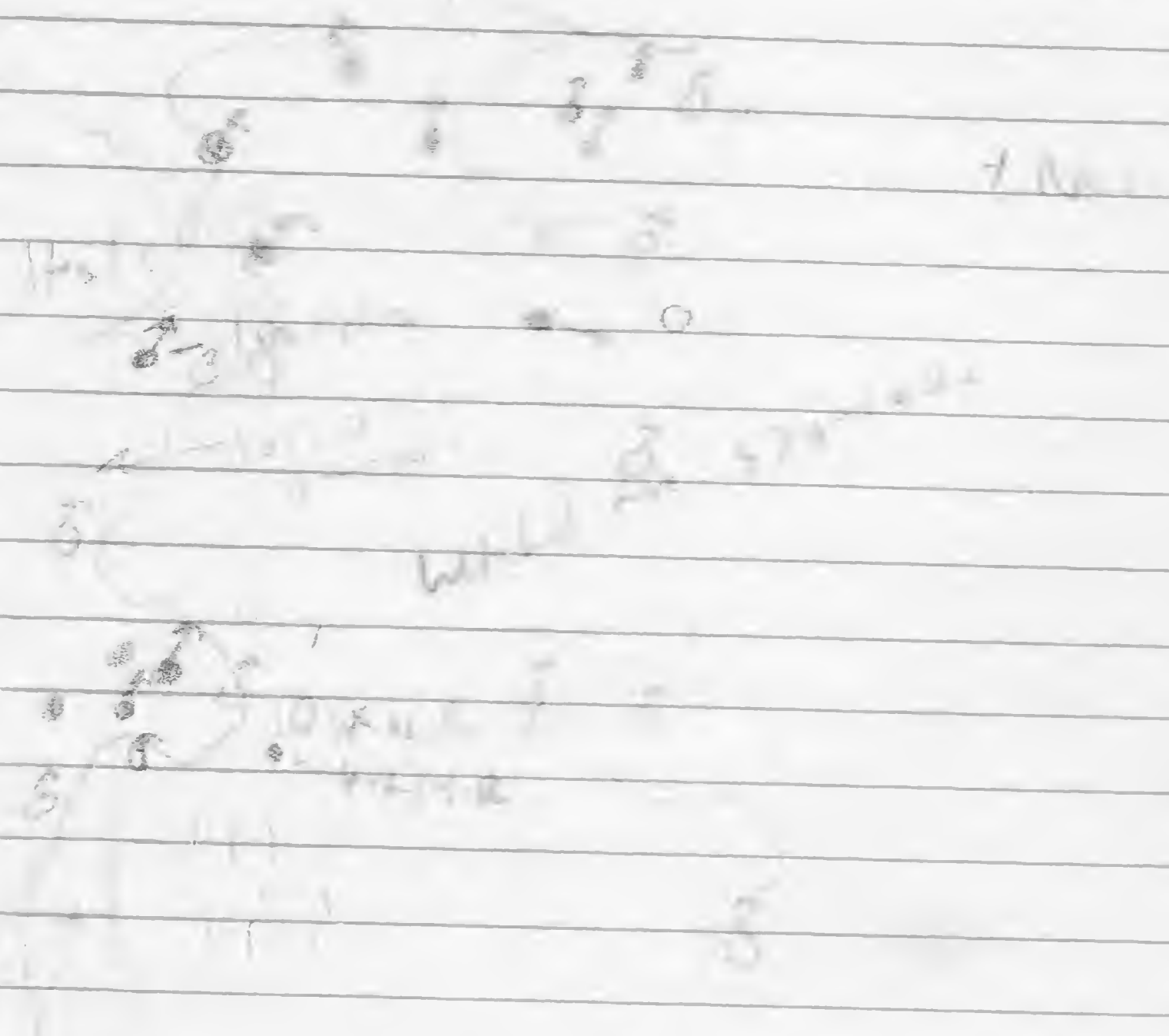
10/11 10/11
10/11 10/11
10/11

113 - From the corner at M₁₂ to

the road up the hill
to the house
the house is on the road

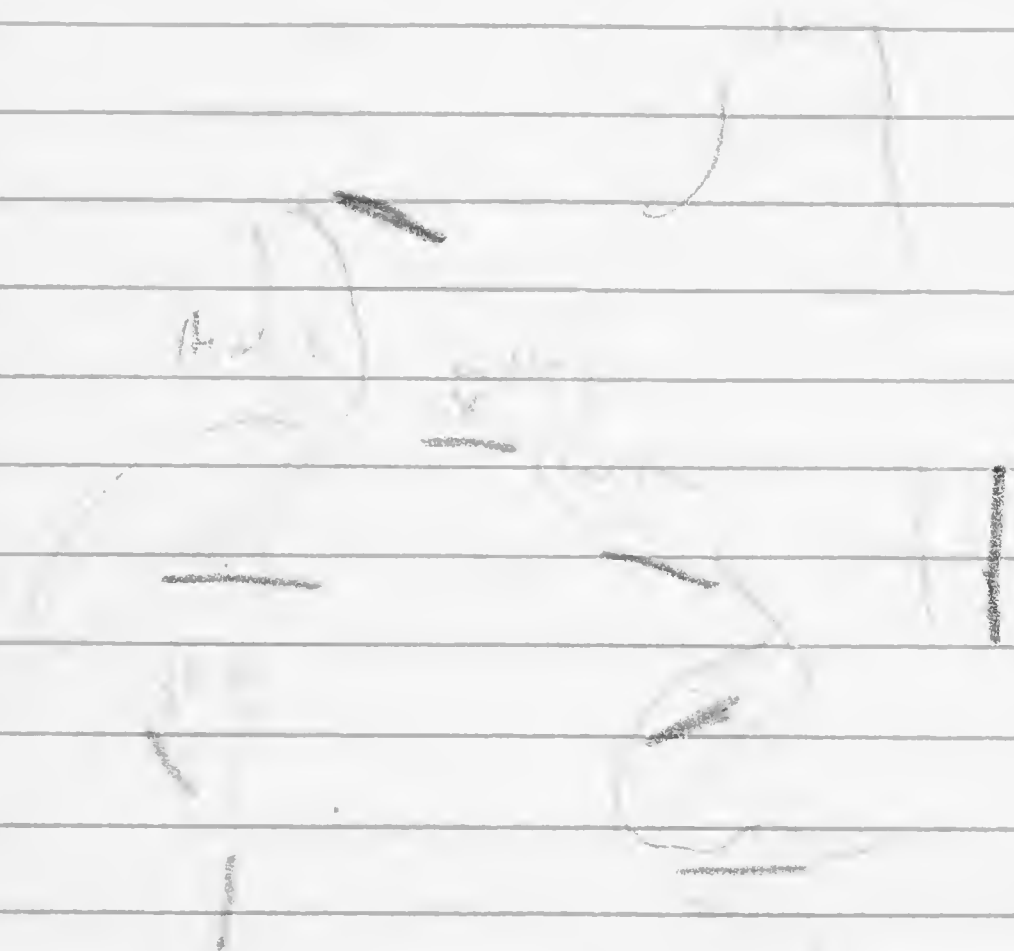


M₁₁ nothing to the Blue Ridge



the house is on the road

Net locations for May 11



May 12 positions

29.2.0

Page 100

Song 1 12.5 14.3

15.0 17.1

17.2

18.7

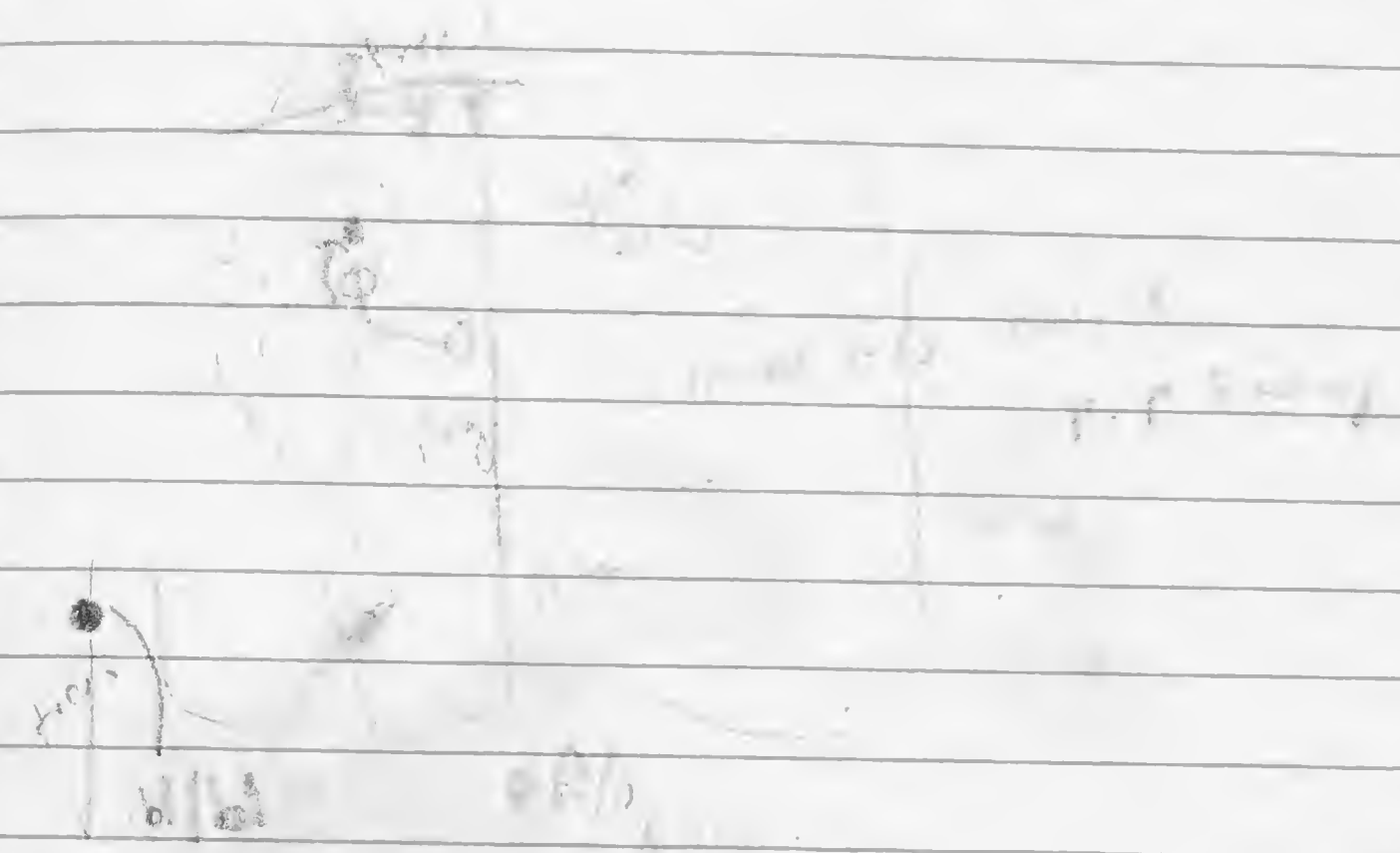
Song 2 15.6

16.4 16.8

17.2 18.7

Song 2 16.0 Sub 16.3
20.1 10.8
12.6

Notes



Song 2 14.3 12.7

15.3

16.7

18.0

18.6

Song 3 15.4 20.1

15.5

18.9

17.1

17.3

May B

R3D →

10000 (1000) 10000 Pike

Swamp A

1. 7000000
2. 1000000
3. 1000000

~~.08~~
.13

12

1. 5000000
4000000
1000000

.15

C

2 x 1000000

.06

D

.12

Swamp A

64 1000000

.08

Swamp B

.06

Swamp C

.03

Swamp D

6 1000000

.09

Swamp B on island

Wet ...
Swamp 3 14.8 11.2 ^{in Bar} _{Low}

12.5

11.4

11.2

12.2

Swamp 4

13.0

12.9

12.1

12.2

11.6

11.2

Swamp 5

Swamp 5

10.7

9.6

10.5

9.1

Swamp (on the side of the ...)

10.3

16.7

16.7

17.0

16.2

15.8

Playback Experiment
on

recording bird song at
P.R. - Loma

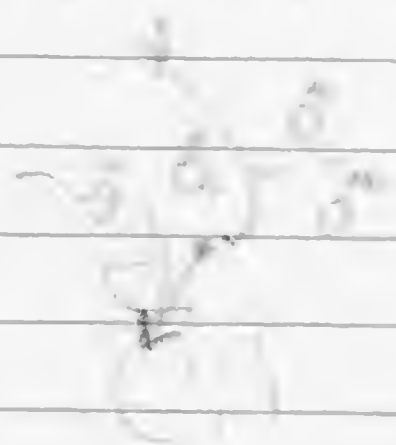
Singing Song Finch

Swamp Sparrow in response
to playback
about 100 yards
away

No response
to playback
in response

(about 100 yards away)

6-7 birds



a sample of 10-15 birds

at any time

May 12 mky

mid - River Lake 2nd

10:44

DP/Red

6:21

?

Thinning

Sunny mid River Lake

11:44

6:23

2 crown

Sunny mid River Lake

12:10

6:25

Thinning

Sunny mid River Lake

6:27

6:28

1 crown

DP/Red 6:28

4 crown

CP

Sunny mid River Lake

6:29

DP/Red CP 6:30

Sunny mid River Lake

5:30 1 crown

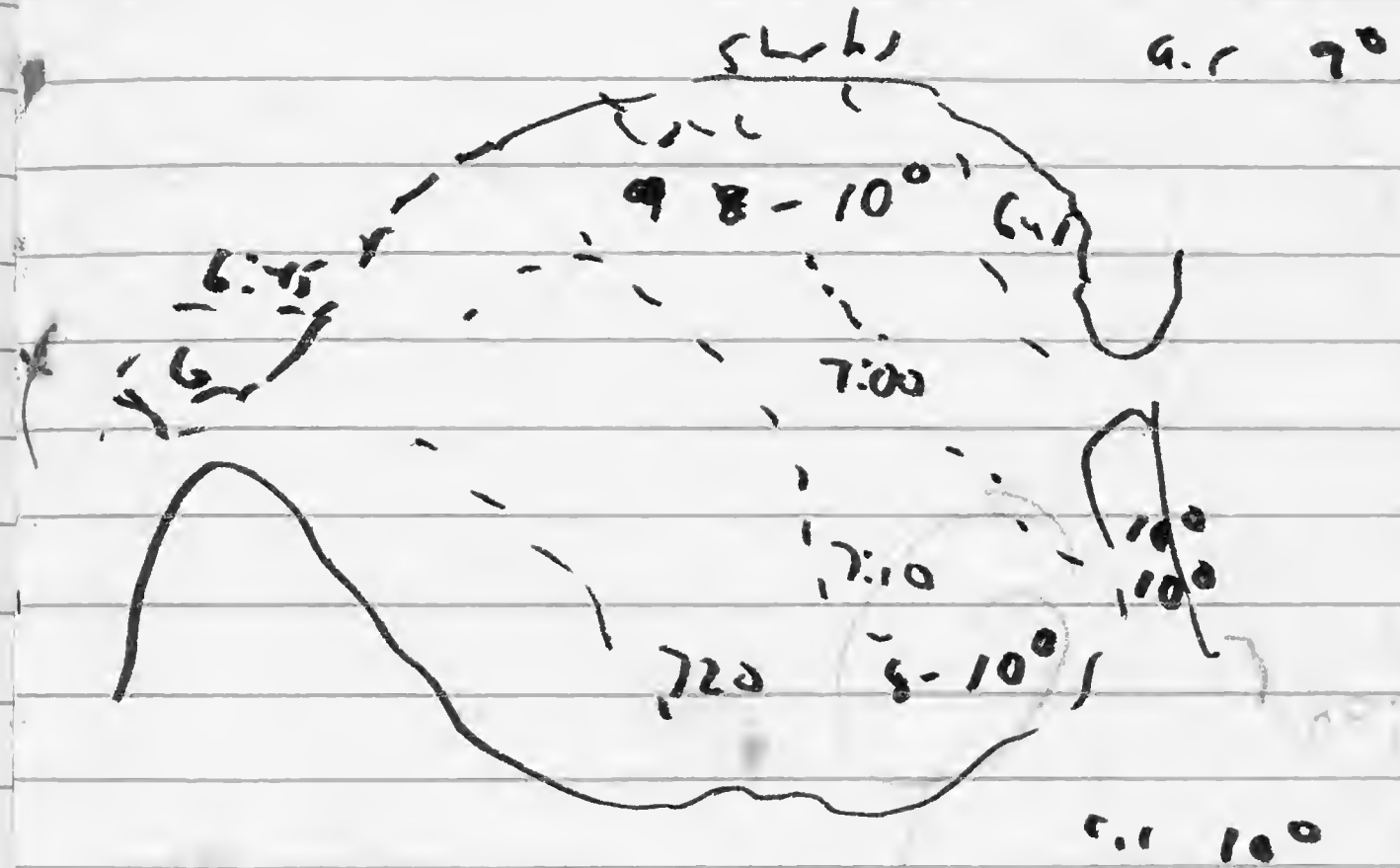
6:54 R-B / R-Y

Swamp m.d. Beaver E
 w-6/Red 6645
 62 mm ♂
 4-crown

~~Swamp m.d. Beaver E~~
 Sory for Beaver U
 w/B 6676
 62 mm wing

Swamp M.d. Beaver E
 4 crown ♂
 w/B 6673
 63 mm wing
 UP

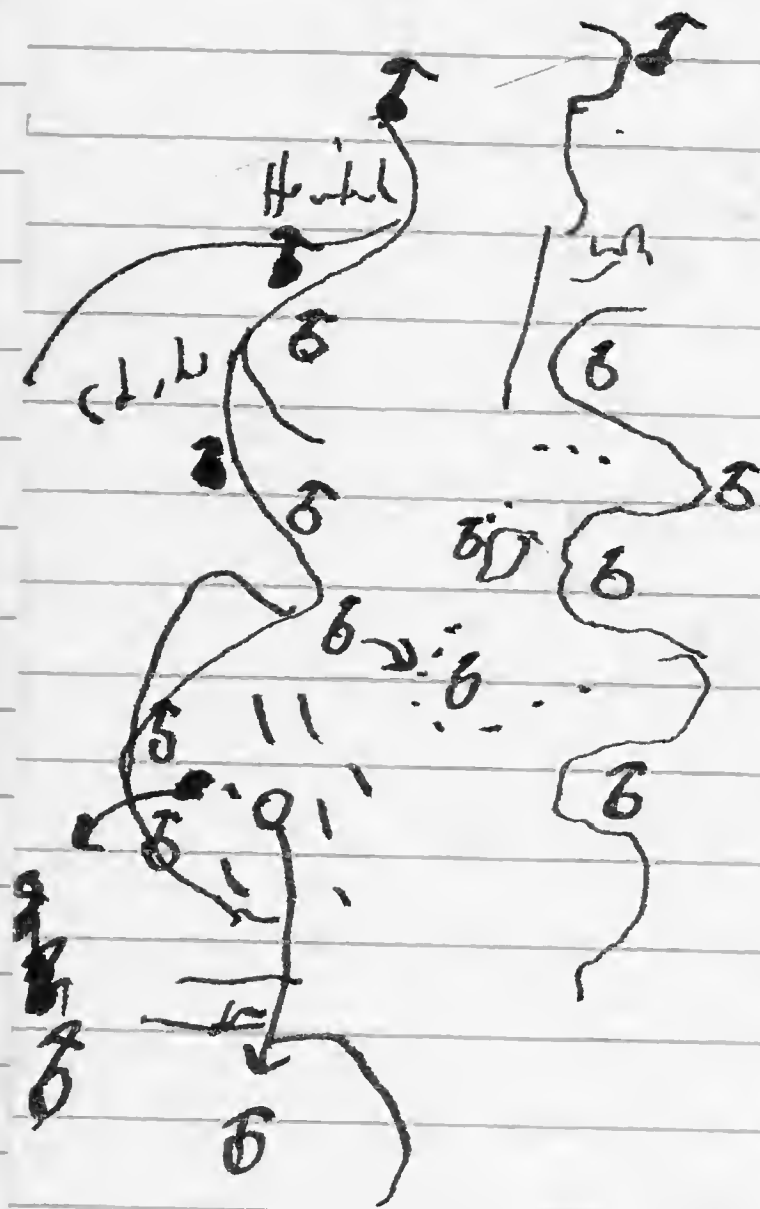
So. l. traps
 @ 8:00



sun hits
 Noon air temp or b.c. 22.8
 11.1 temp 12.8

dry 8-10 11-16
 wet 9-10 8-12
 15

Observations



Aug 12th Buis

Swamp E River Bar

P/13

6637

64 min

11/10/11

SP

Surg E River Bar

P/14

6672

64 min

Surg

River Bar

667

Red 10-11

64 min

Surg

Red 10-11

66-68

72 min

Spring

1.

Ben

Re

6159

0-4/0

64

9

3rd Blvd. p. 10

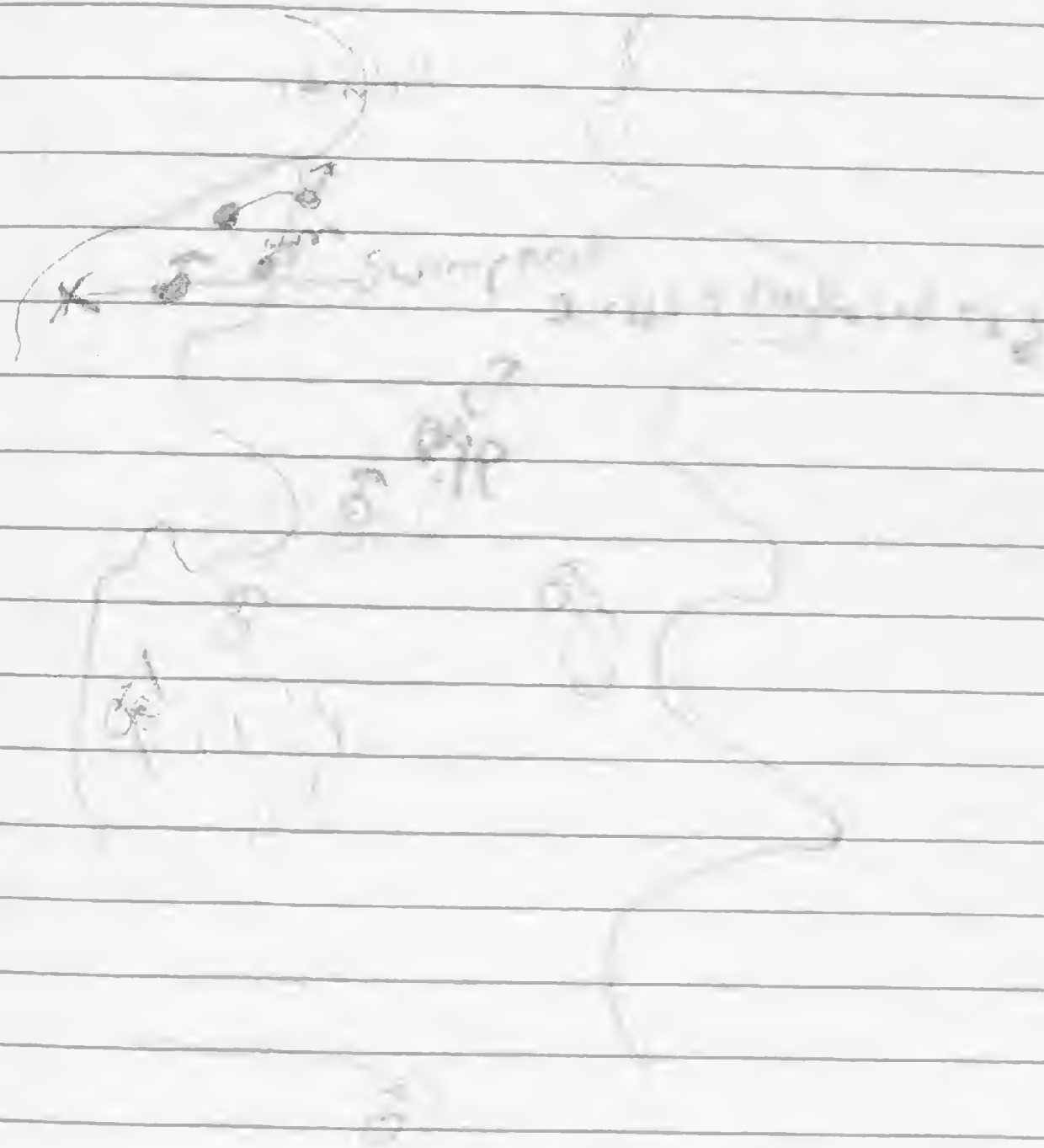
2017

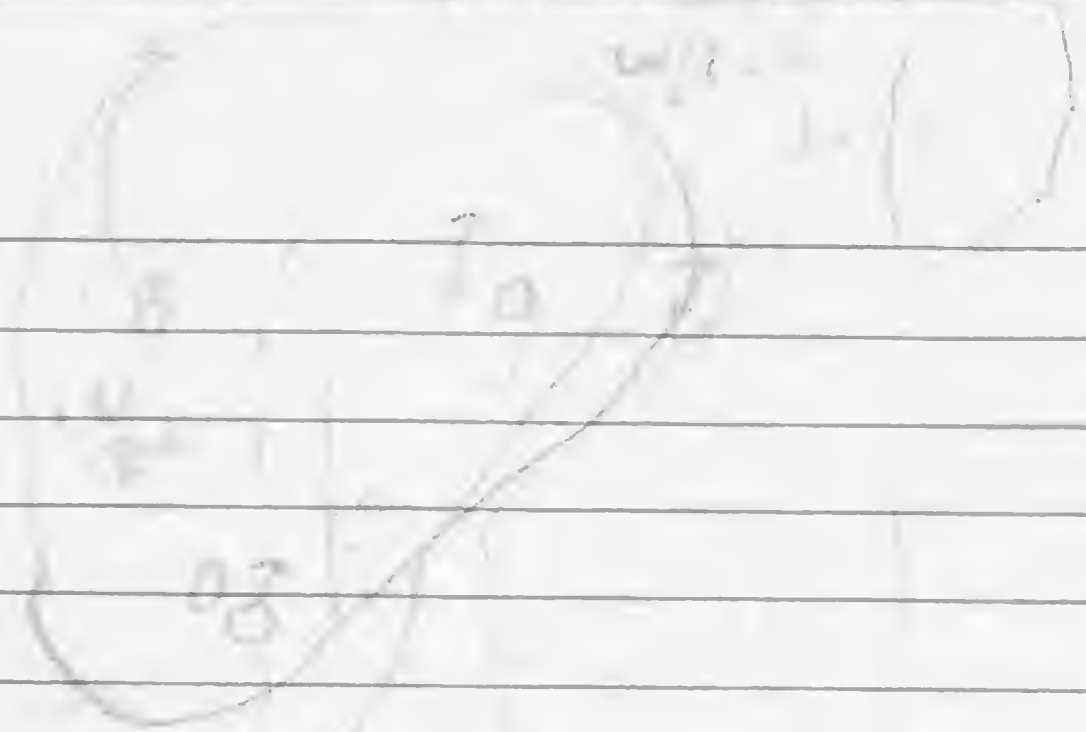
66 67

B. K. Frost O/B-G

May 13

1954





08

2-107F

will be
gile
m...

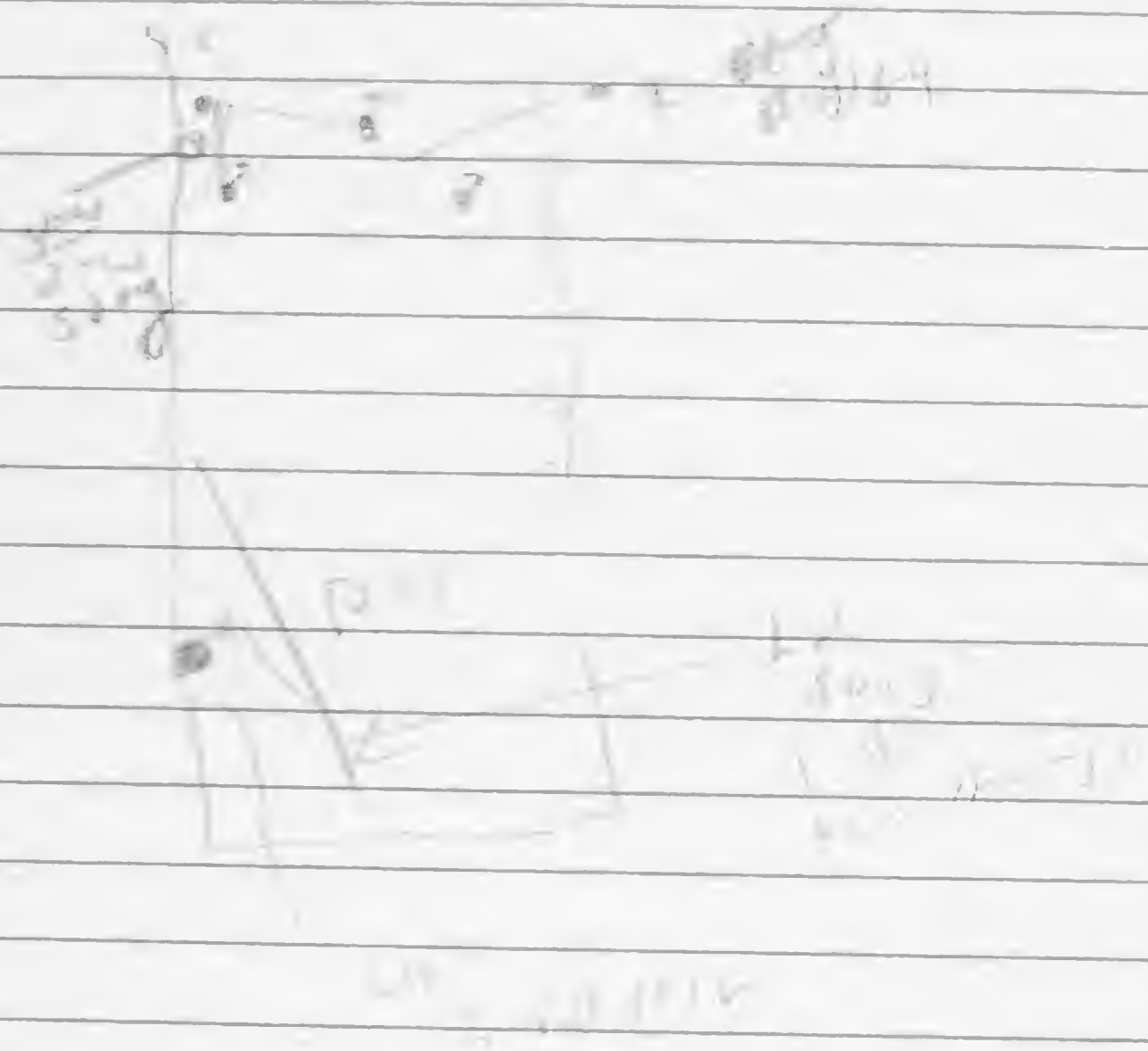
10-10-03
priority 3/R
at 10-10-03
at 10-10-03

24-60

2-107F



at 10-10-03
at 10-10-03
at 10-10-03
at 10-10-03



pm
 D1, Bar P1
 Y Sump I/P
 (bird in 1st sump
 is P1?)

by camp Sump with Rd or
 or Bar

dyr/dyr in P1 Area (by Willow)

1st A and B 1st
 2nd A and B 2nd
 3rd A and B 3rd
 (1st A and B 1st)

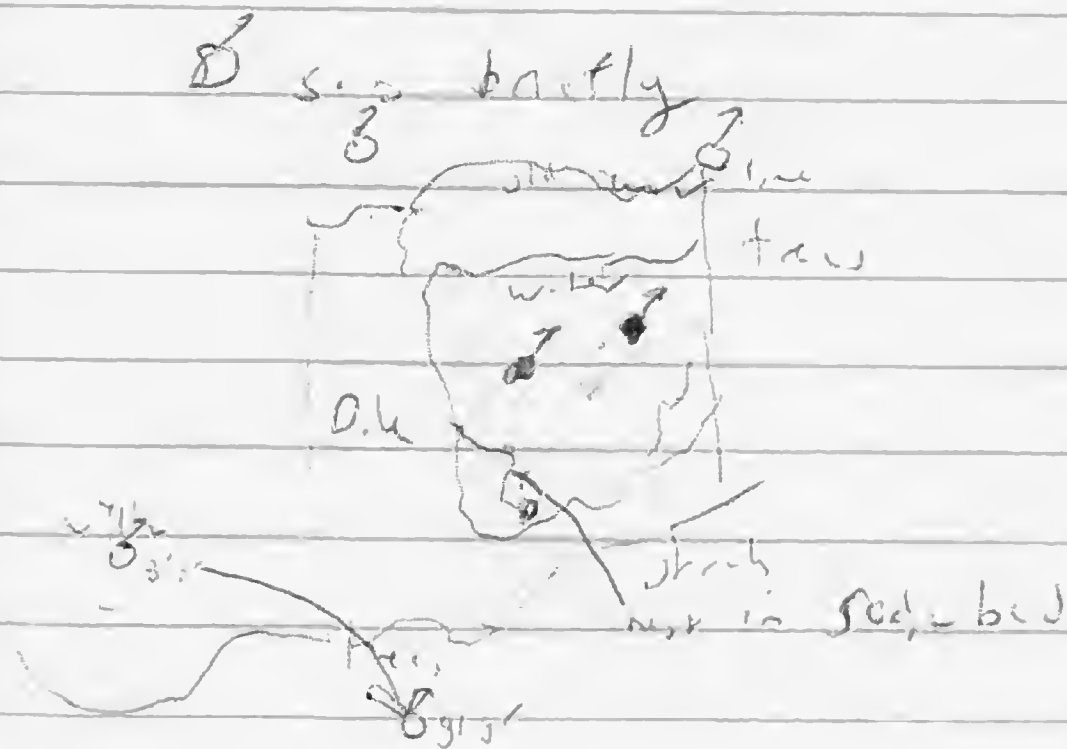
1st A and B 1st
 2nd A and B 2nd

1st A and B 1st
 2nd A and B 2nd

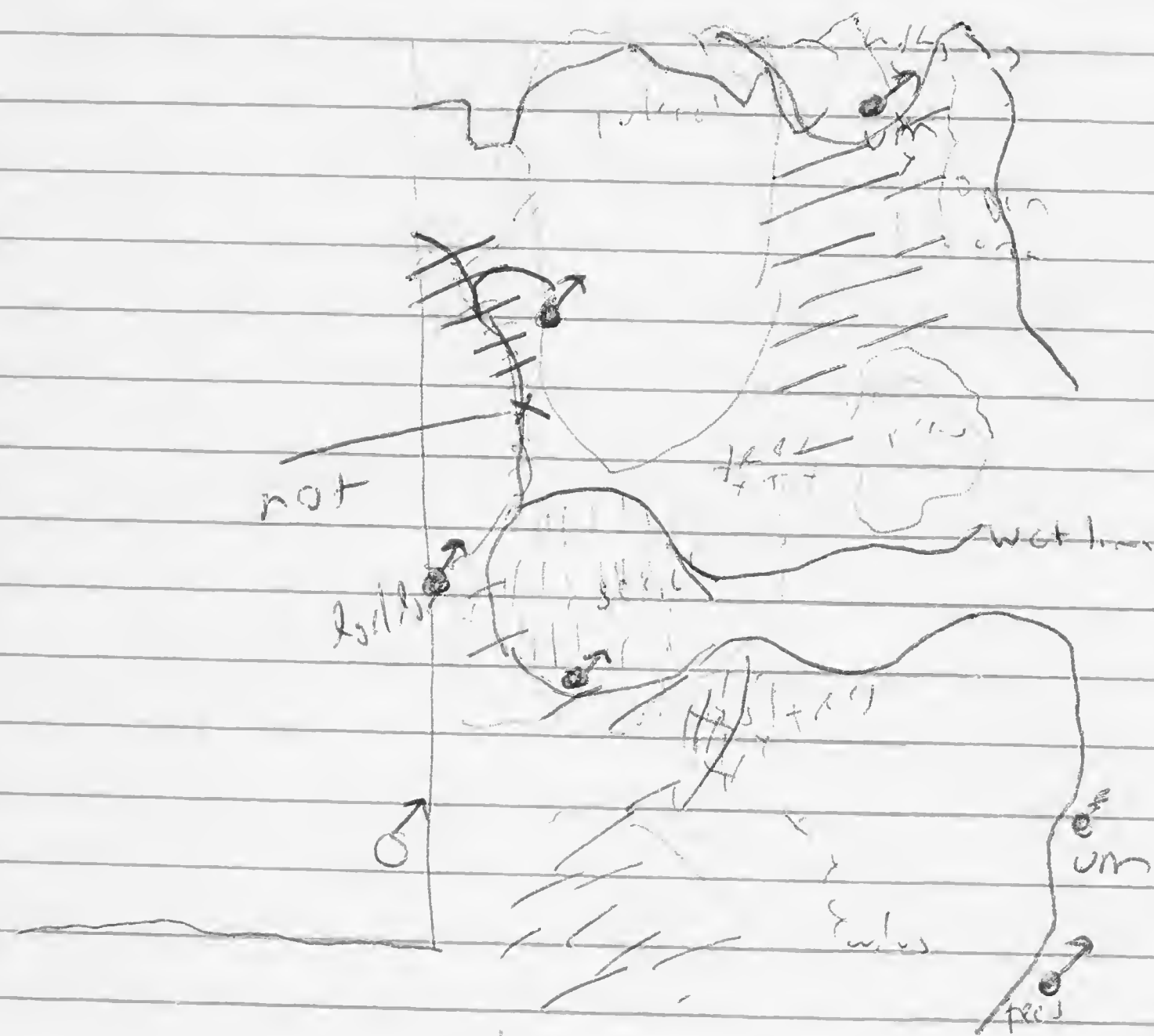
May 14 ^{cloudy}
 830-1130

Went out with tape recorder
 played dig tape behind Pond
 got no response

Then went with Swamp
 At "dig pond" I got
 little response - 9 came off
 nest (4 day old babies in egg)
 all swamps



shocking dry in Swamp 2 area



// = dried within last 2 weeks

~ = water line

got poor response

from nest in phubus

at top of island 2 cm in brush

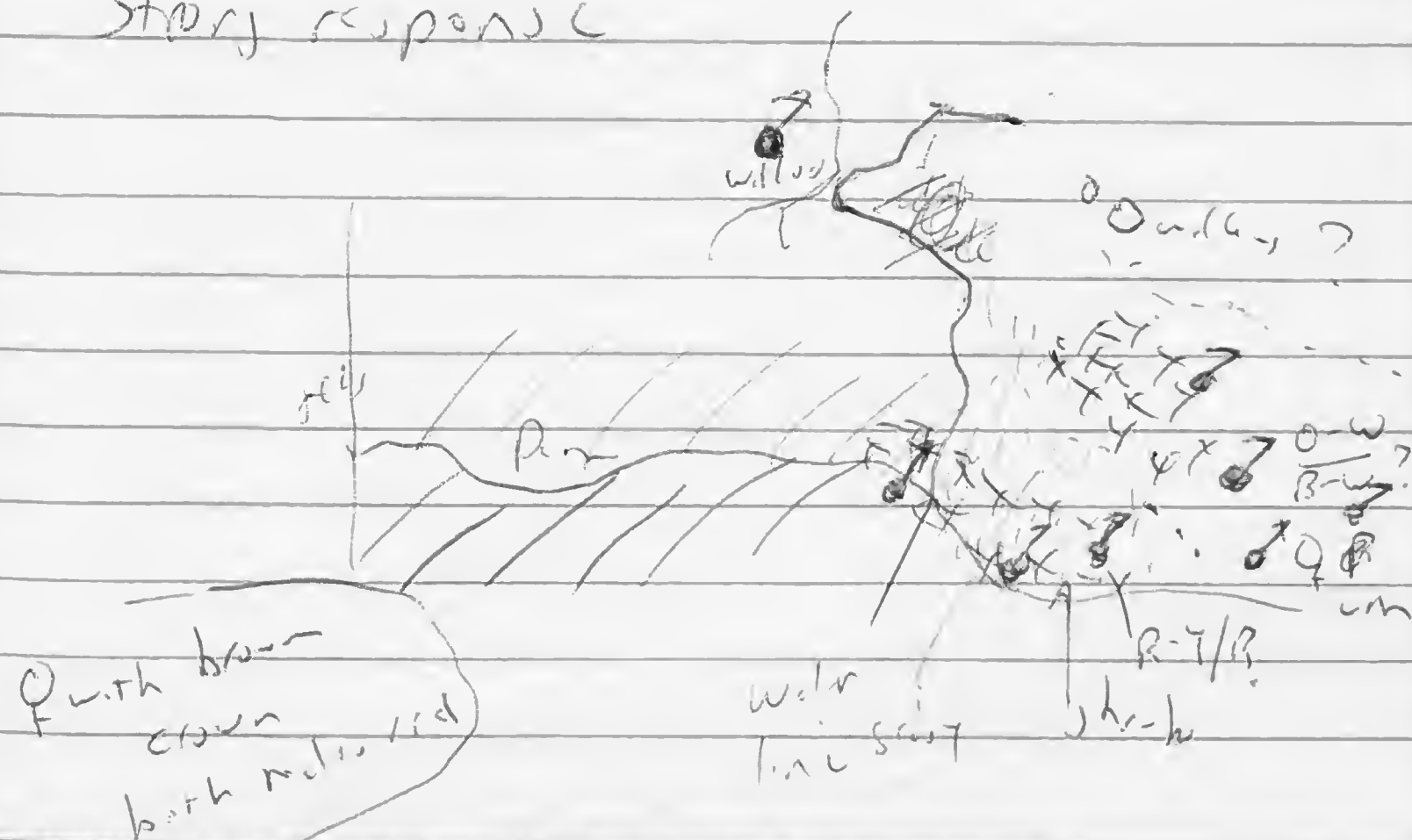
at low right side (water area)

one um in)

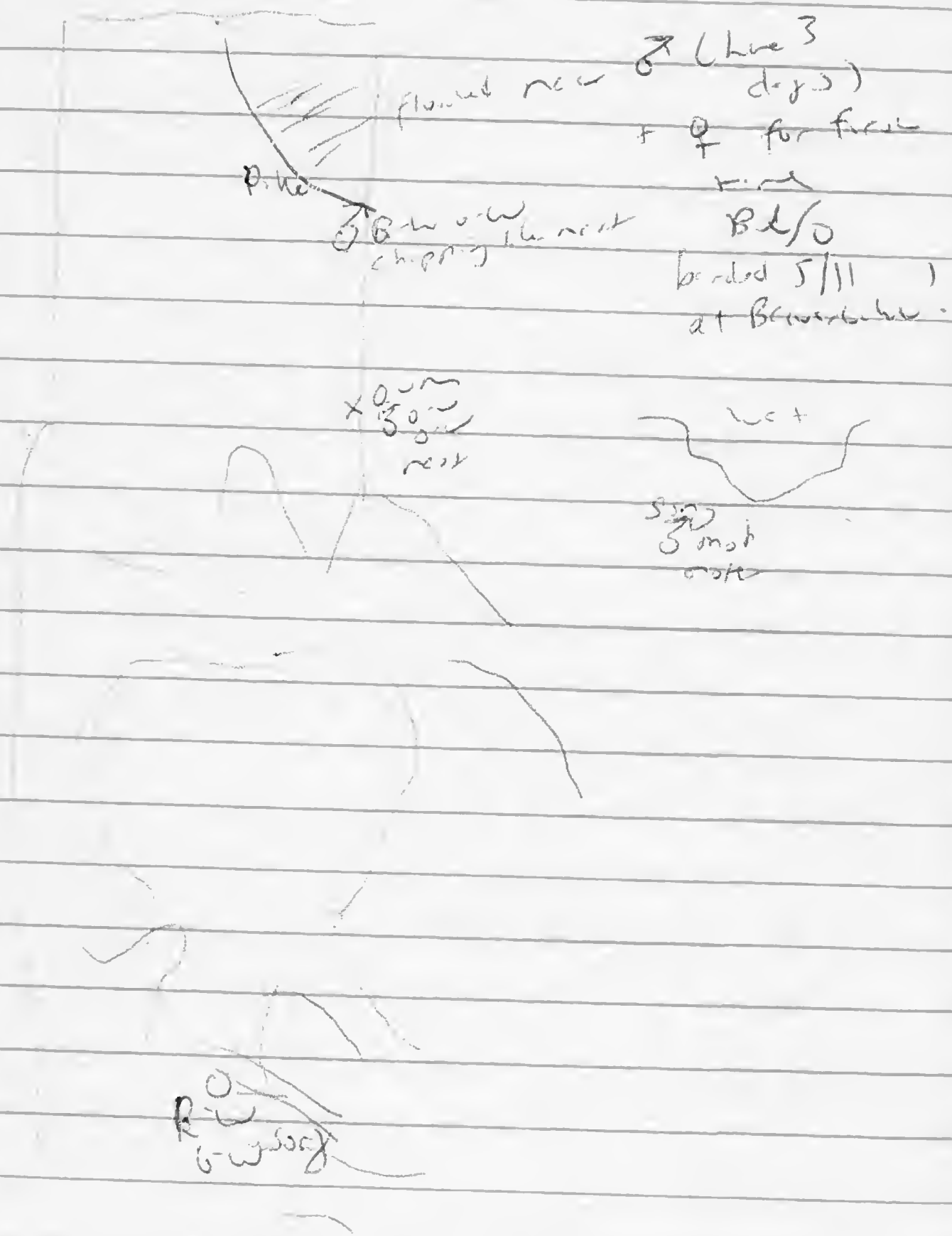
Q lb/lb (not pub!) got off nest.

little song sparrow activity - should prove interesting in next 2 weeks

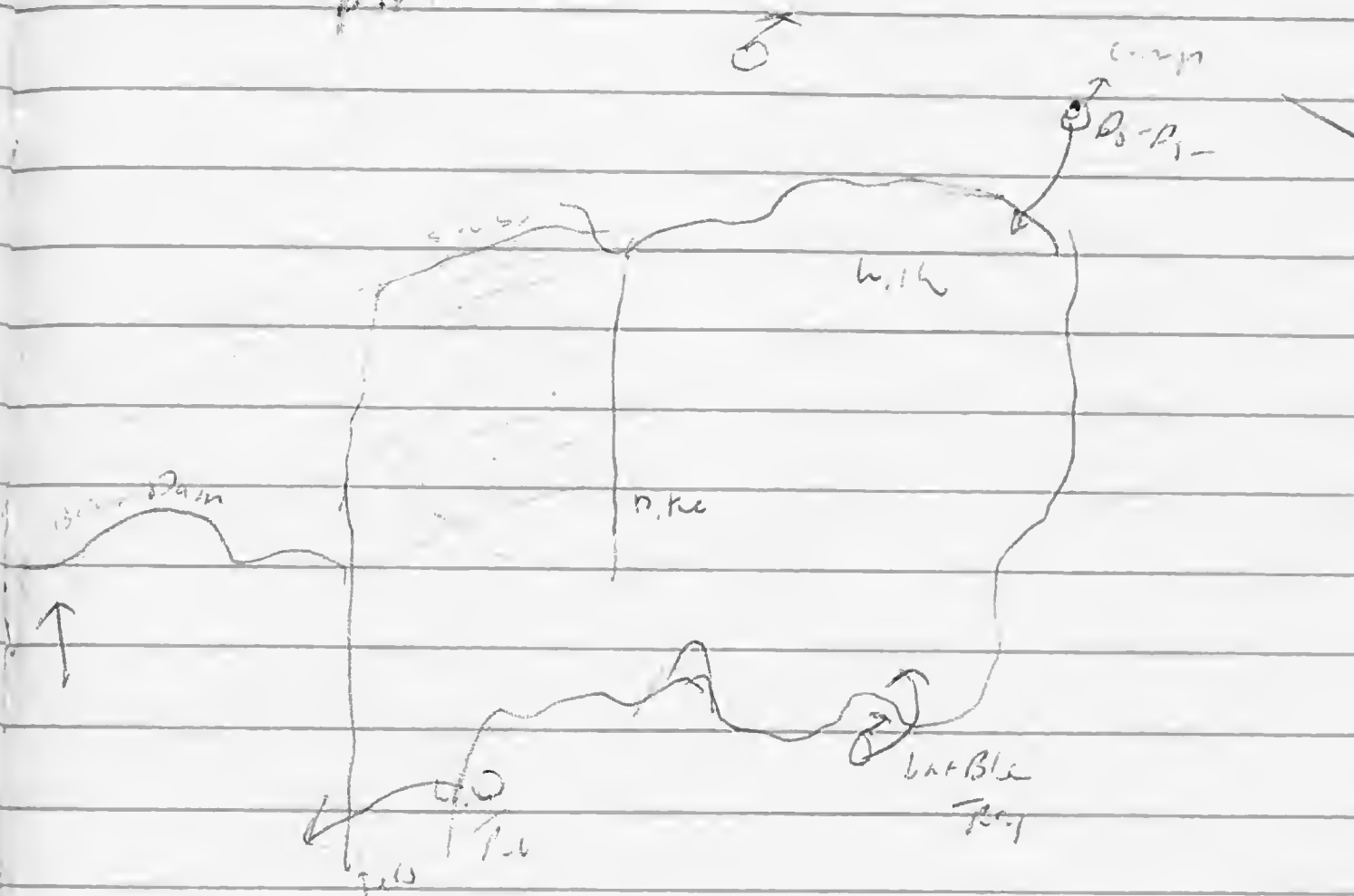
By Beaver dam I got a strong response



5/14 sightings



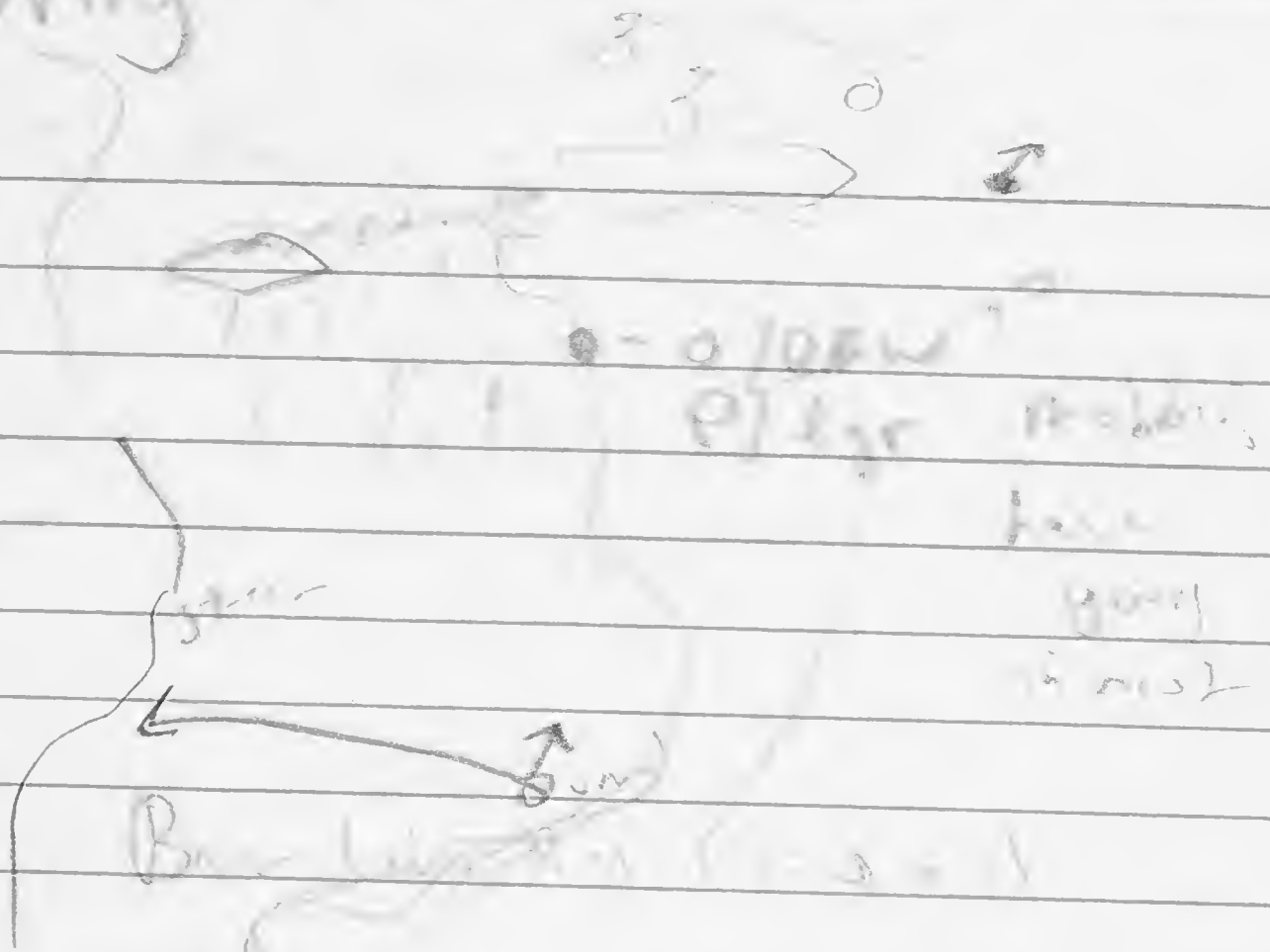
pm



Watched 2 crown Sings feet
 by w.d.g. in 1000
 water for small minutes
 2x

⚡ Later saw mouse mouse
 at Blacking patch
 in Field 2 near
 line

31 May



Base layer

1000

26 May

D. 100

0.00

p. 4

Foot 2

200

B-1/10

100

Plisbach Pull 2 April

Clear View

7:00 AM

at 100 ft
to 100 ft

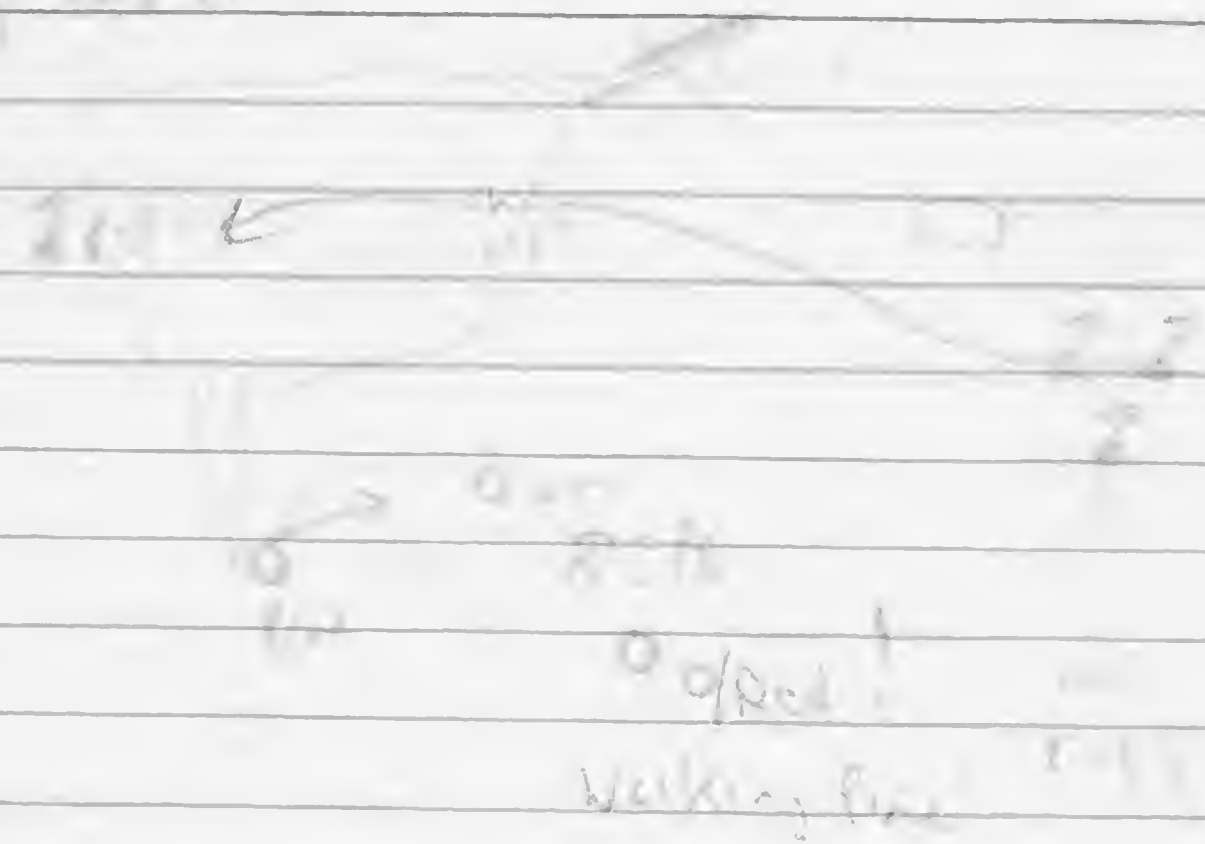
Clear View (100 ft)
to 100 ft

Sketch

Plan



Day Band



more than 100 ft. in length
 they are more like (vertical)
 100 ft. in length (vertical)
 they are more like (vertical)
 100 ft. in length (vertical)

June 1 3:00 - 7 pm

100 ft. in length (vertical)
 100 ft. in length (vertical)



N. 147

M. 100000 100000

5000

100000

1000

100000

1000

1000

1000

100000 (100000)

100000

100000

100000

1000

100000

100000

1000

1000

100000

100000

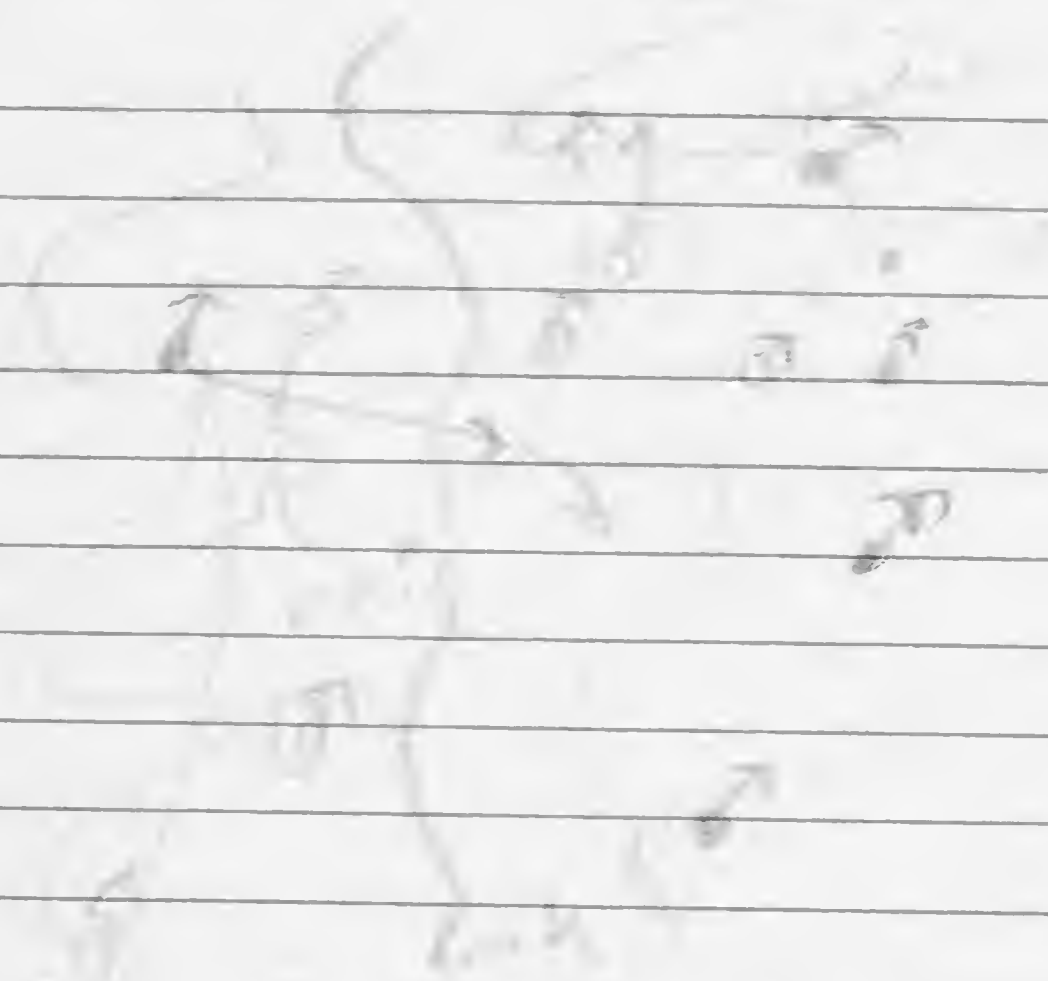
1000

100000

1000

100000

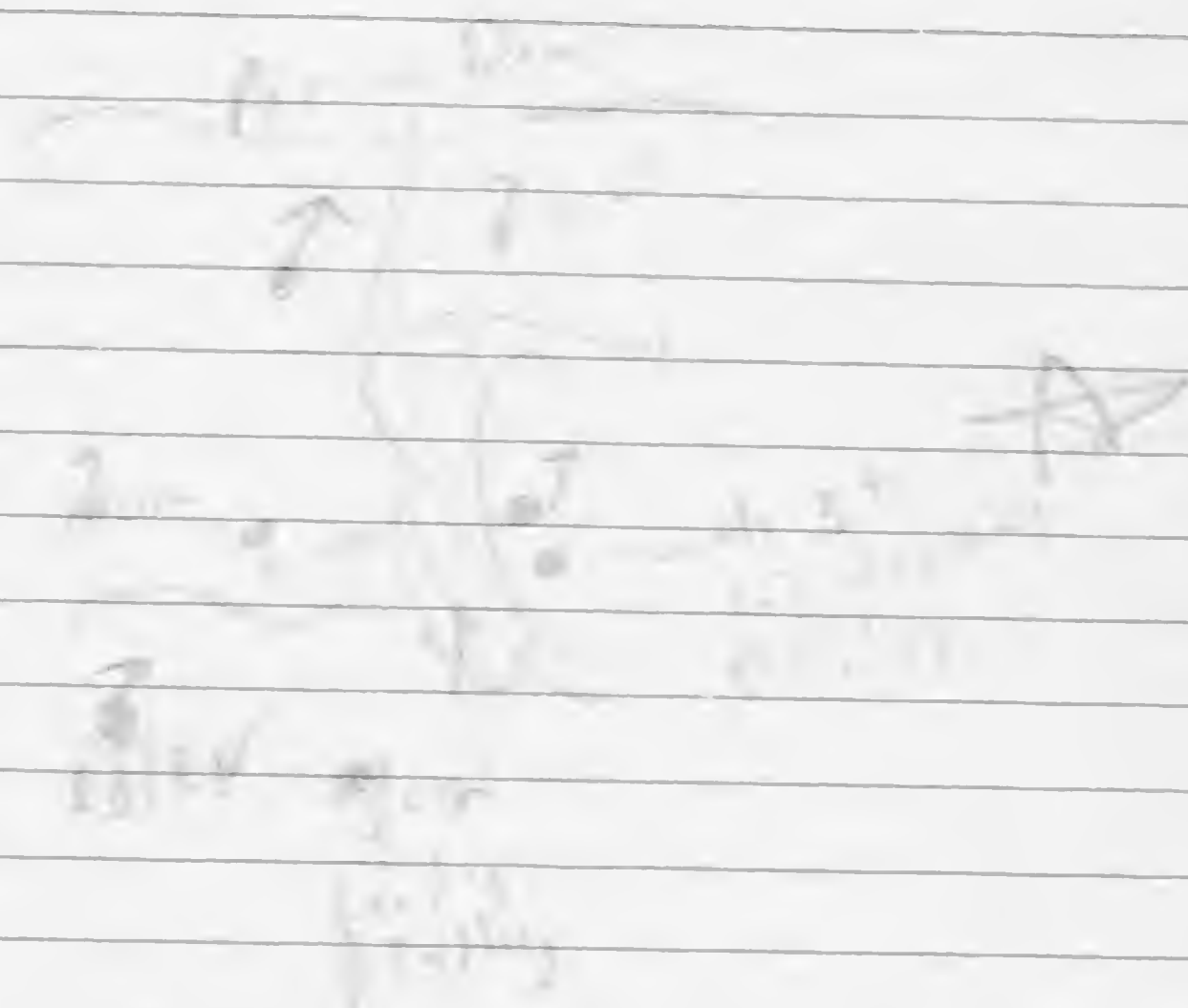
Row 1



Chase by song circle
in 3rd row

[King 8/16-20
at English Hall

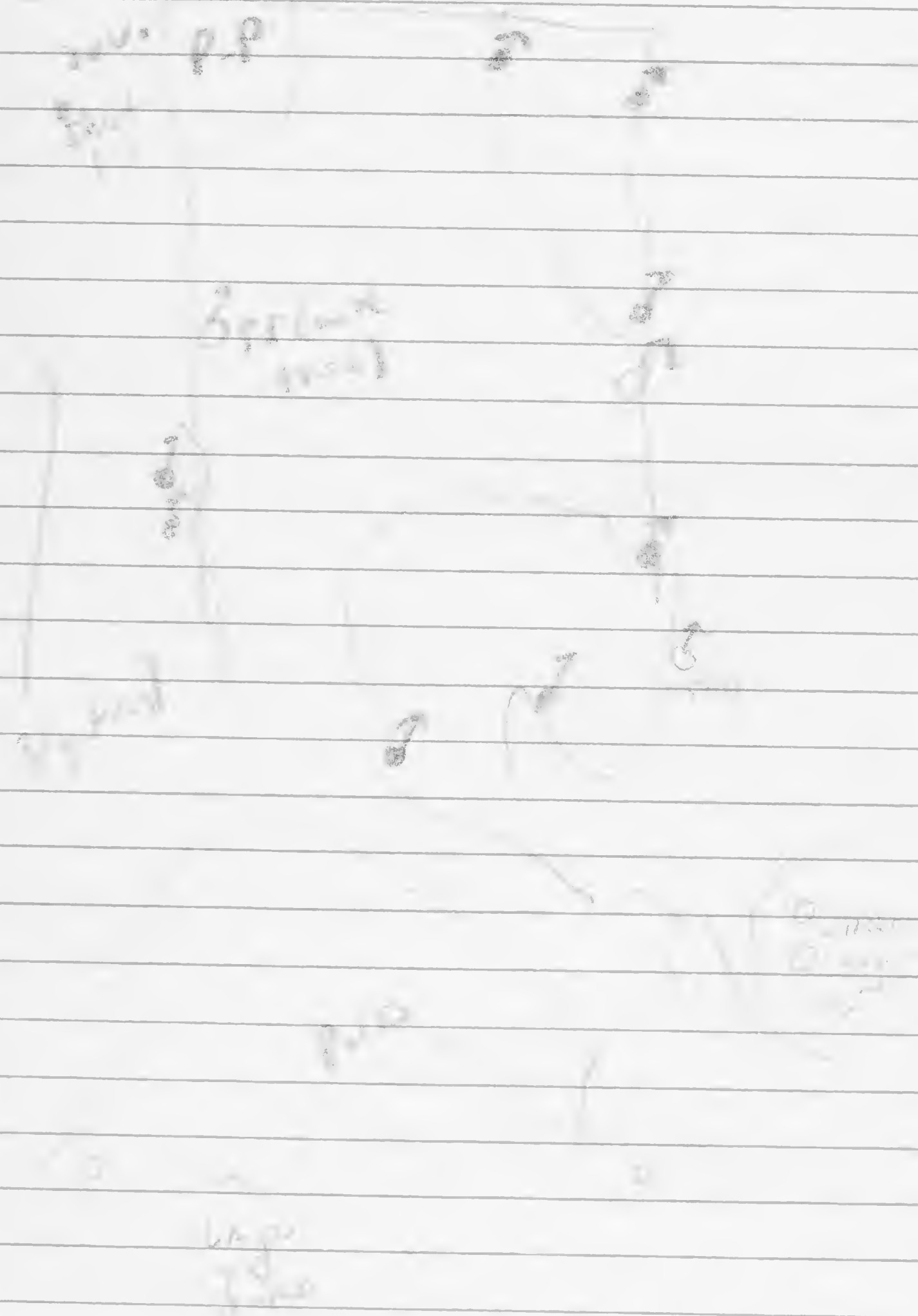
See Span 9-10-11



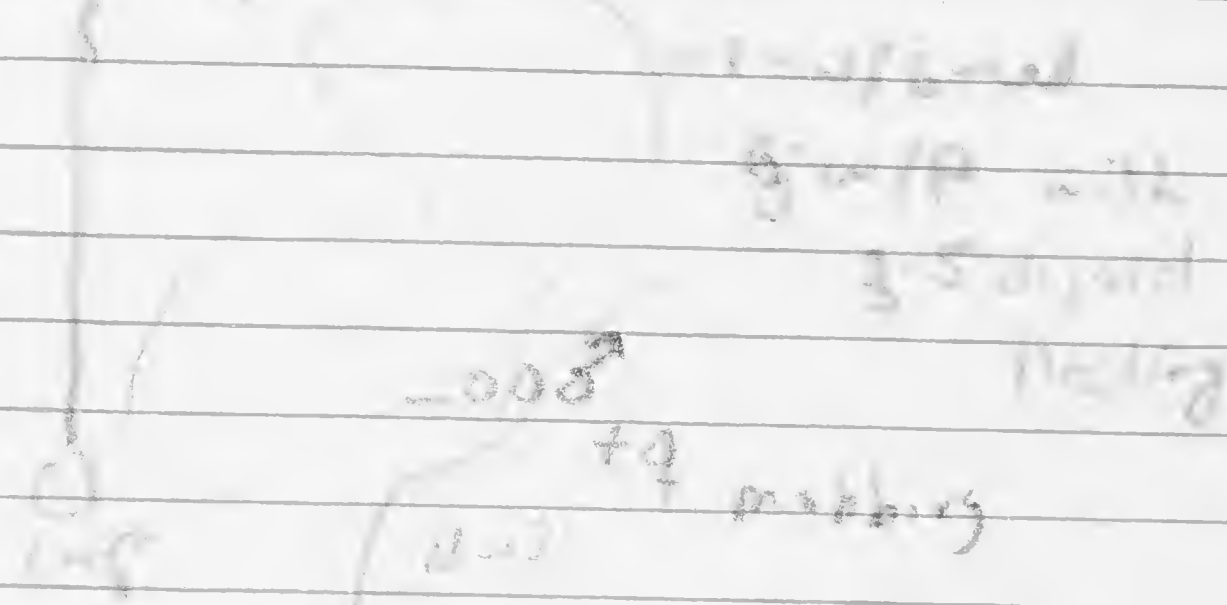
day 12, 1st (in 3rd row)
in 3rd row

into 4 Sun 1st
at 1st row
at 1st row
at 1st row

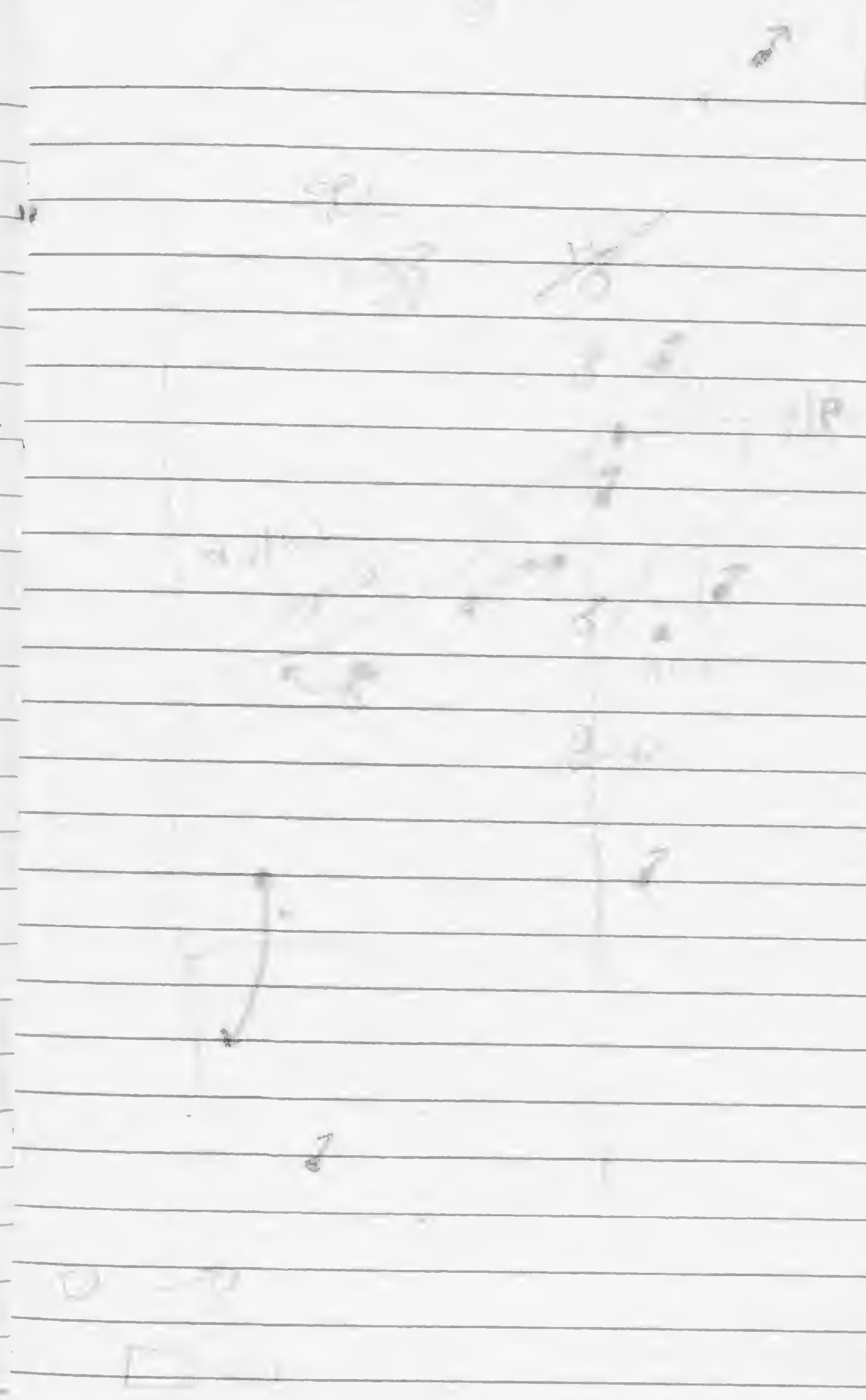
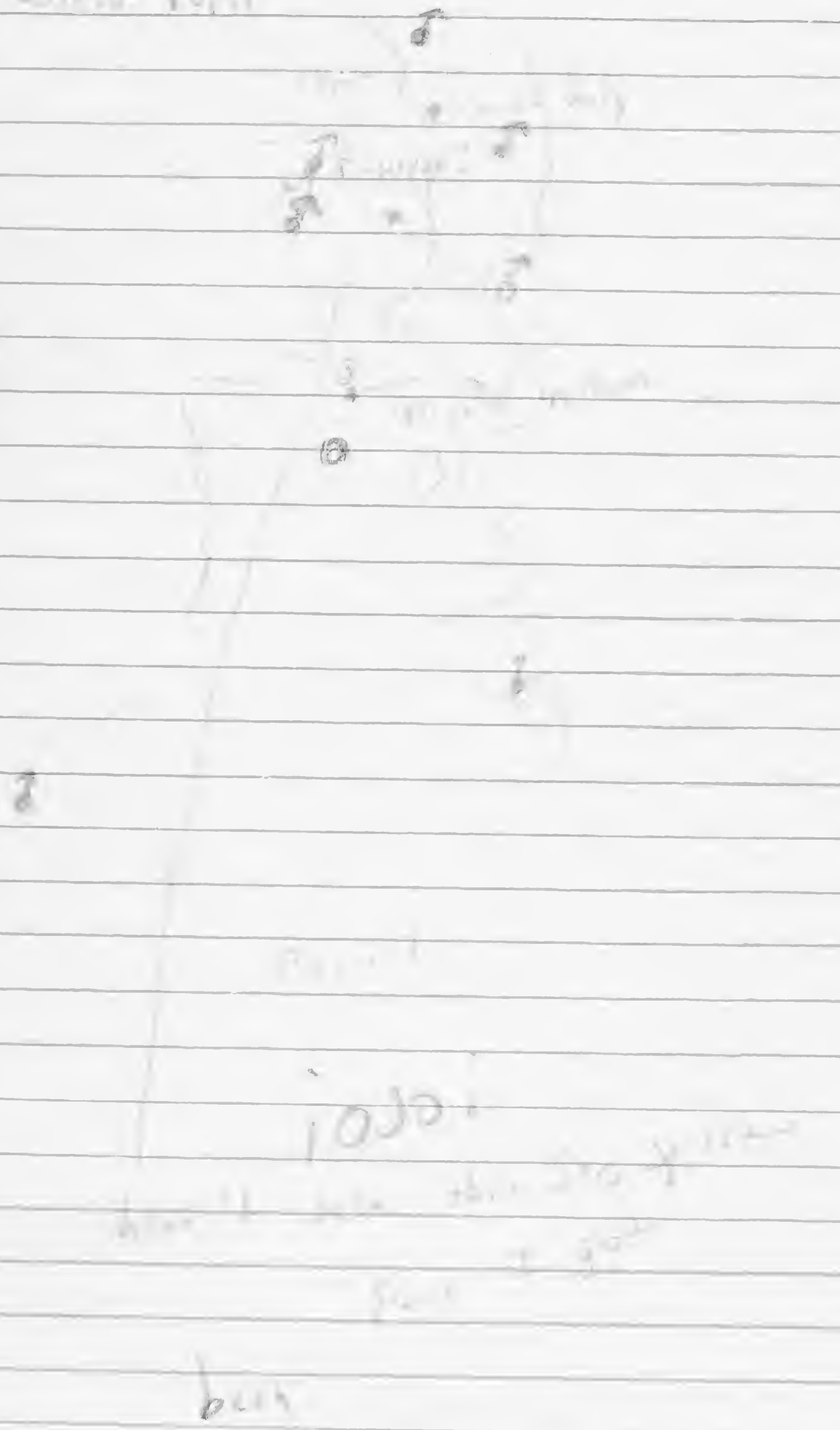
Line 2
Field 1



Line 3



Green Pond



Hatched 11/1

1st 2nd 3rd

1st 2nd 3rd

CP

1st 2nd 3rd

Hatched

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

1st 2nd 3rd

Notes



10/10/1919
10/10/1919

Trapped by the
strong wind part of
the day, a light
breeze 10 am -
20 degrees 100 mph

Receipt

~~10/10~~ 10/10 10/10

10/10 10/10 10/10

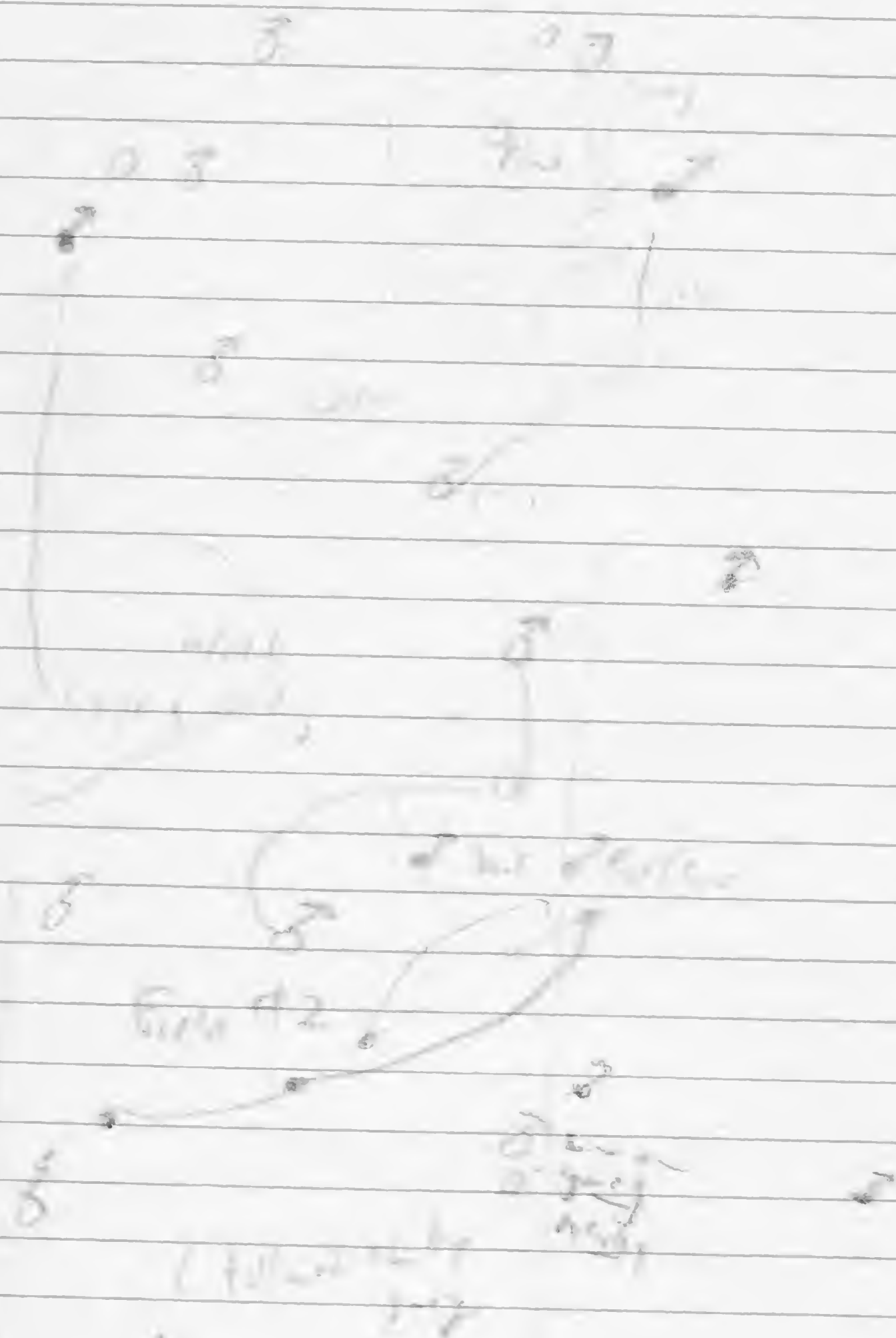
10/10 10/10 ?

10/10 10/10 10/10

10/10 10/10 10/10

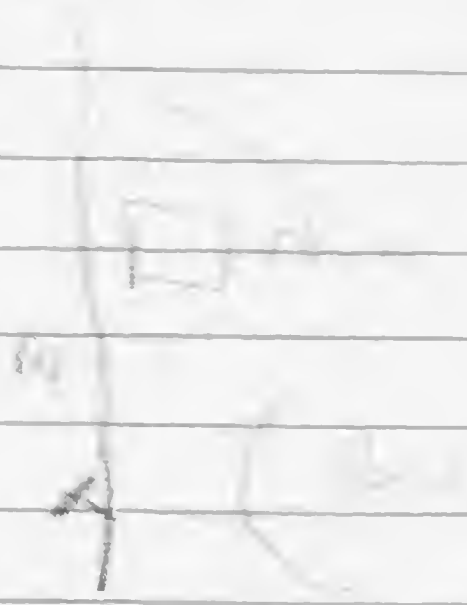
10/10 10/10 10/10

6/3 - clear & sunny
- 100000



Two new more songs
feeding on July 1st, 1900
all year

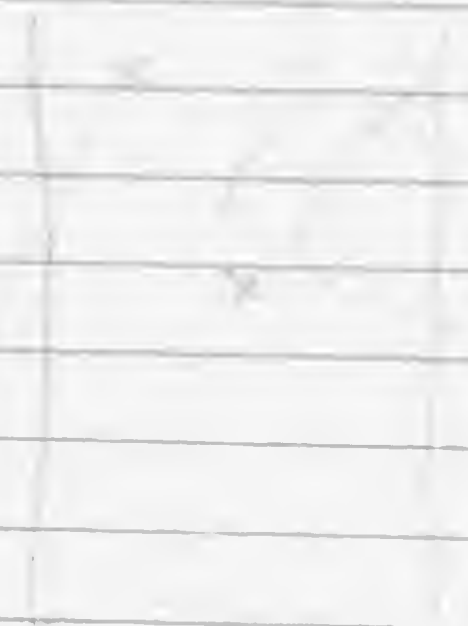
Song Sparrow in the air
all the
day



0/3 b.ing

Group recap

14/14 mid field?



14/14

0/25

14/14

14/14

CP

Group of

14/14

♀

14/14

14/14

14/14

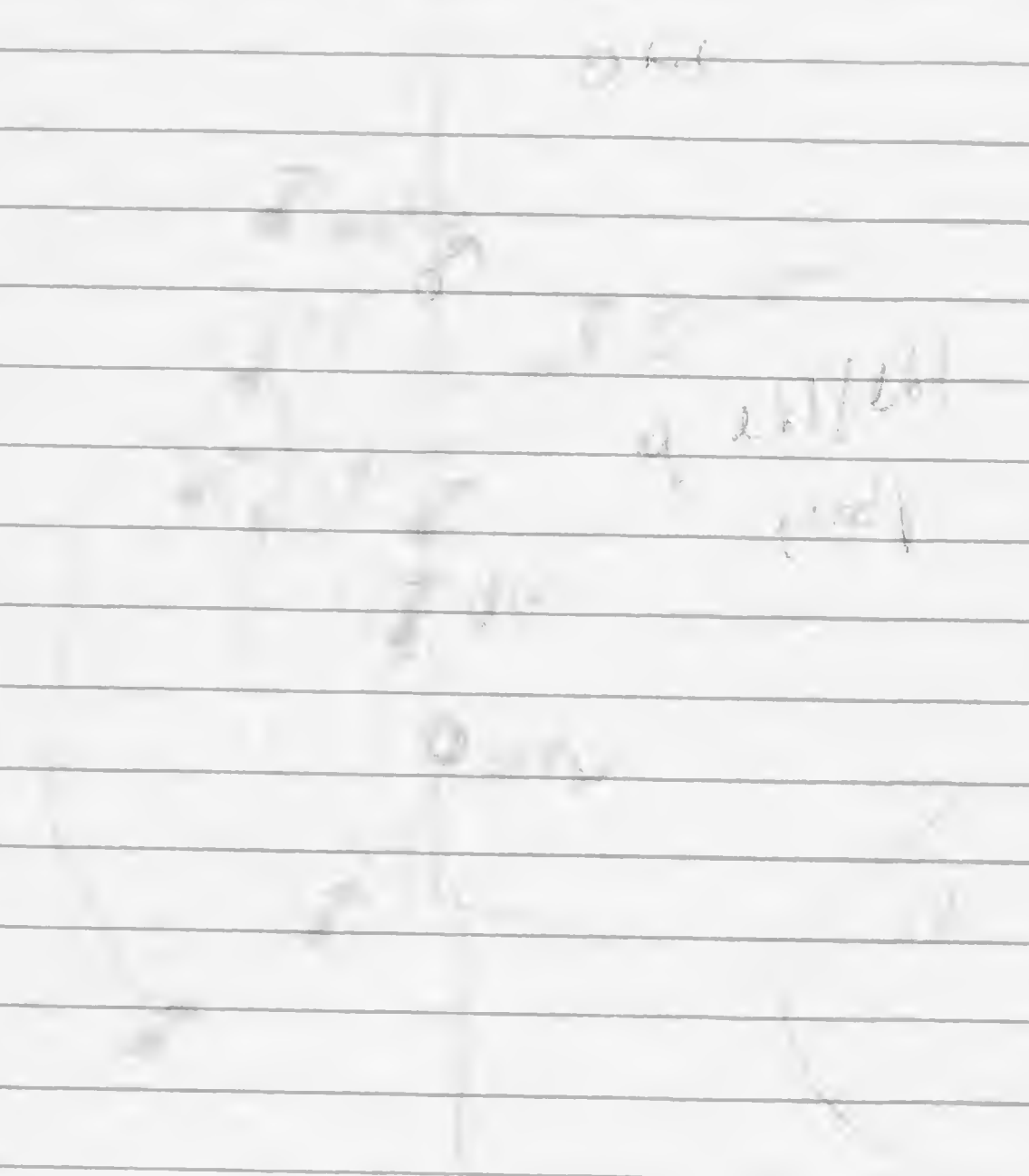
14/14

14/14

Group in some of recap!

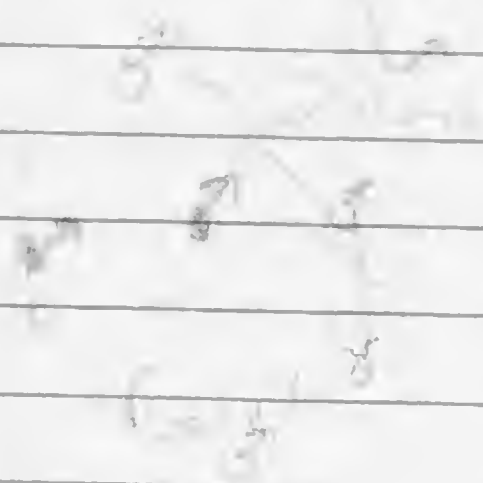
14/14

0-0.5



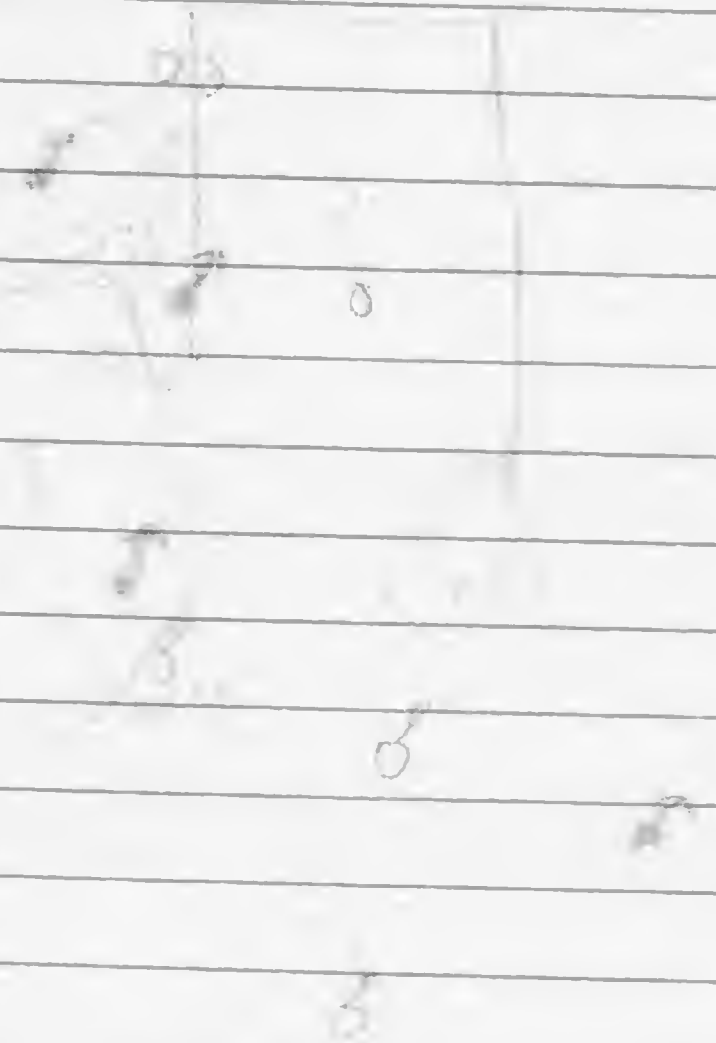
11-11
 12-12
 13-13
 14-14
 15-15
 16-16
 17-17
 18-18
 19-19
 20-20
 21-21
 22-22
 23-23
 24-24
 25-25
 26-26
 27-27
 28-28
 29-29
 30-30
 31-31
 32-32
 33-33
 34-34
 35-35
 36-36
 37-37
 38-38
 39-39
 40-40
 41-41
 42-42
 43-43
 44-44
 45-45
 46-46
 47-47
 48-48
 49-49
 50-50
 51-51
 52-52
 53-53
 54-54
 55-55
 56-56
 57-57
 58-58
 59-59
 60-60
 61-61
 62-62
 63-63
 64-64
 65-65
 66-66
 67-67
 68-68
 69-69
 70-70
 71-71
 72-72
 73-73
 74-74
 75-75
 76-76
 77-77
 78-78
 79-79
 80-80
 81-81
 82-82
 83-83
 84-84
 85-85
 86-86
 87-87
 88-88
 89-89
 90-90
 91-91
 92-92
 93-93
 94-94
 95-95
 96-96
 97-97
 98-98
 99-99
 100-100

6/4 PM



100

Field 2

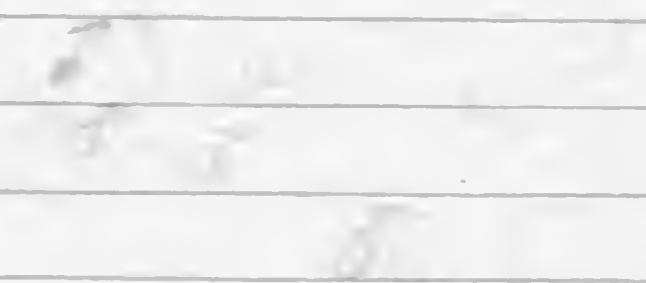
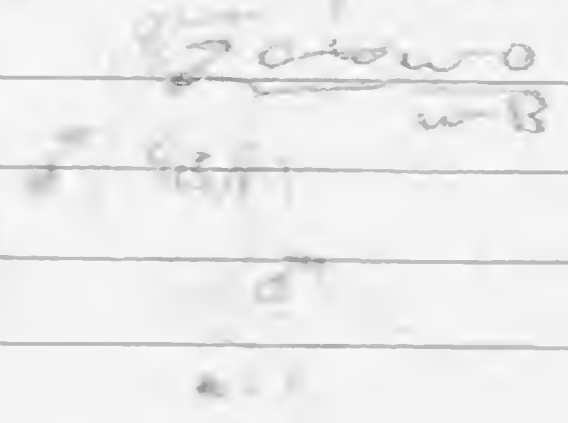


June 5

Before sunrise the flowers
the area - by pond is really
flooded

Shrimp in all water
some small at the end (2-3 days)

Enough to study the birds



June 6

Field 1



P.P.



Sketch of the 1st day

Sp. 11222

Large pasture area



Previously
occupied by
agricultural
spillage
now
timber
undergrowth

Total area = 5.5 ha

Length of fence = 800 meters

From June 5-12 it rained

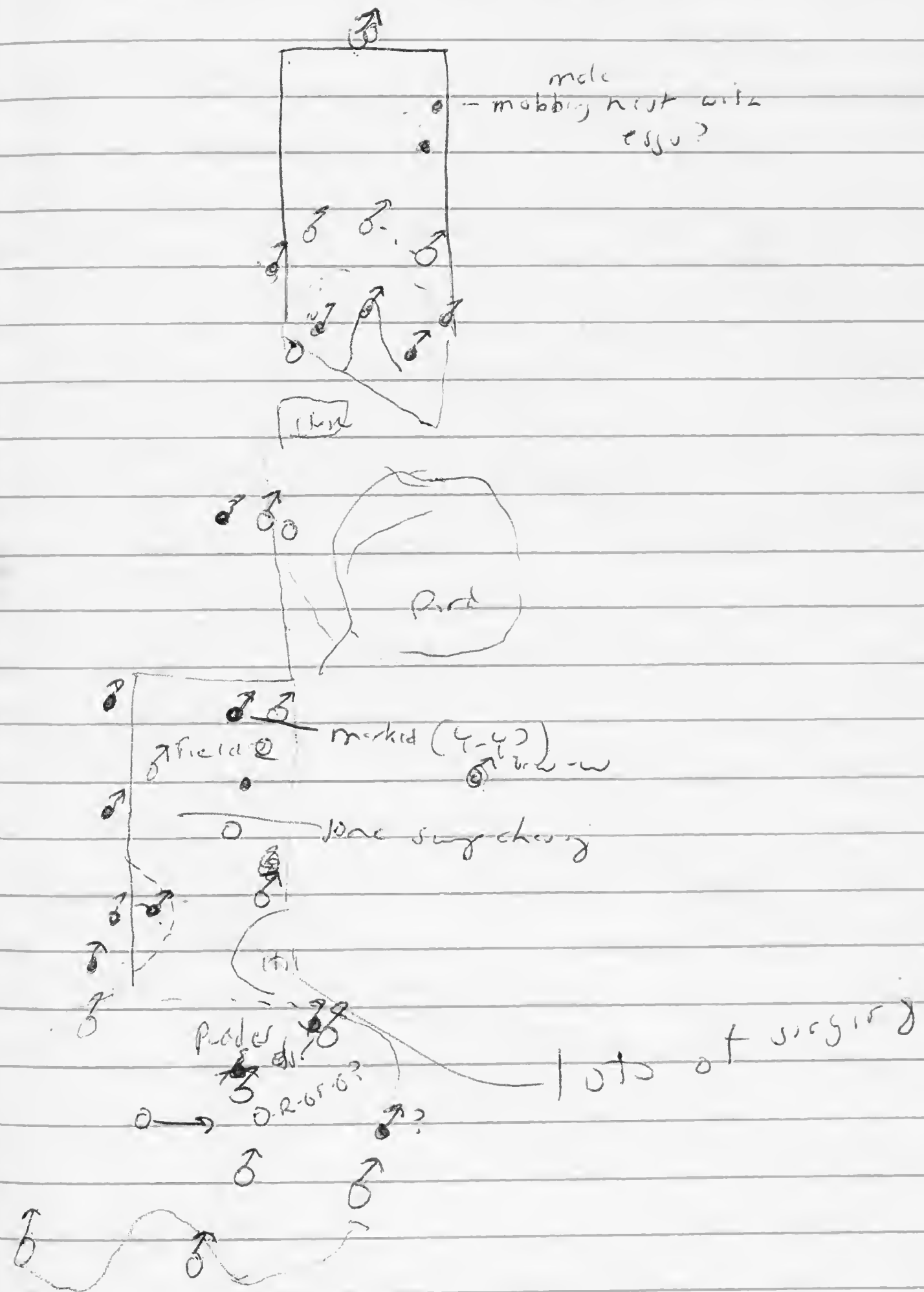
9 inches (beginning with long sides
5-6 ft.)

causing massive flooding!

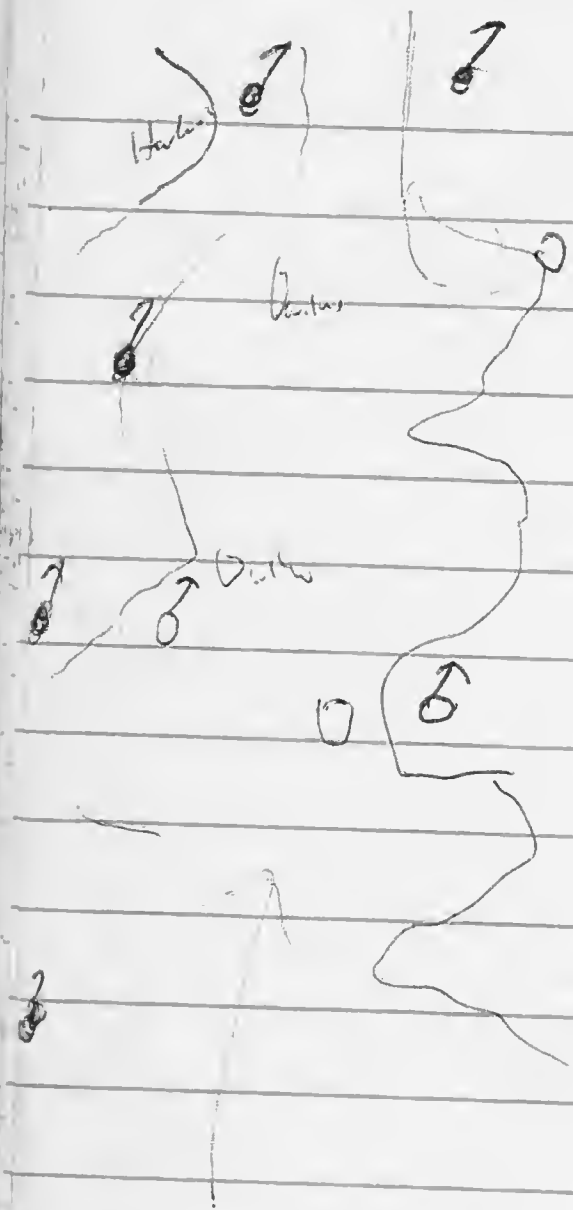
I returned 14 June to find
the flood, mostly had receded
leaving wet + pooled areas in
its wake.

Gene was out on 13 &
saw that Don Vito's pond was
massively flooding so flood
waters receded very rapidly.

14 June cont., 9-11:30



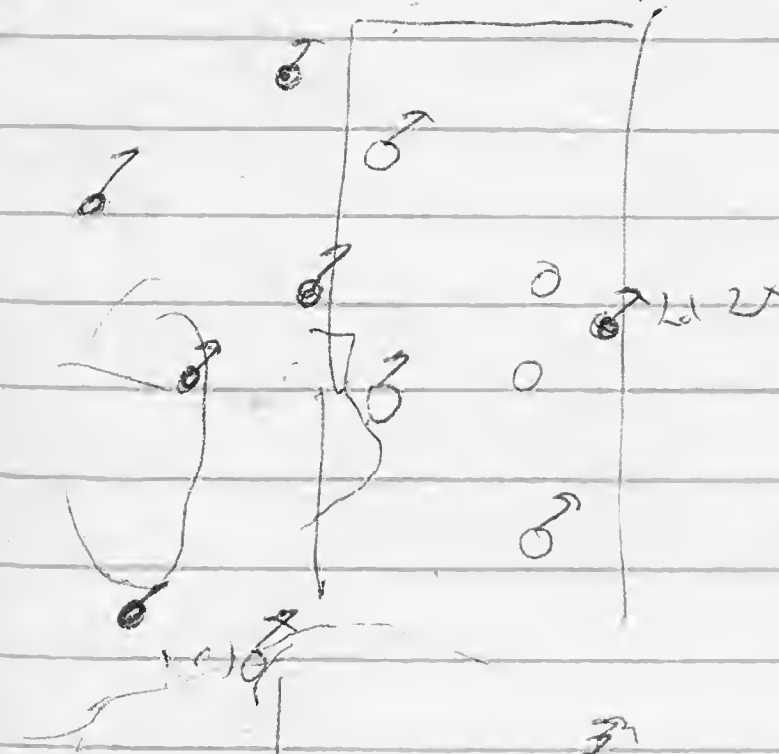
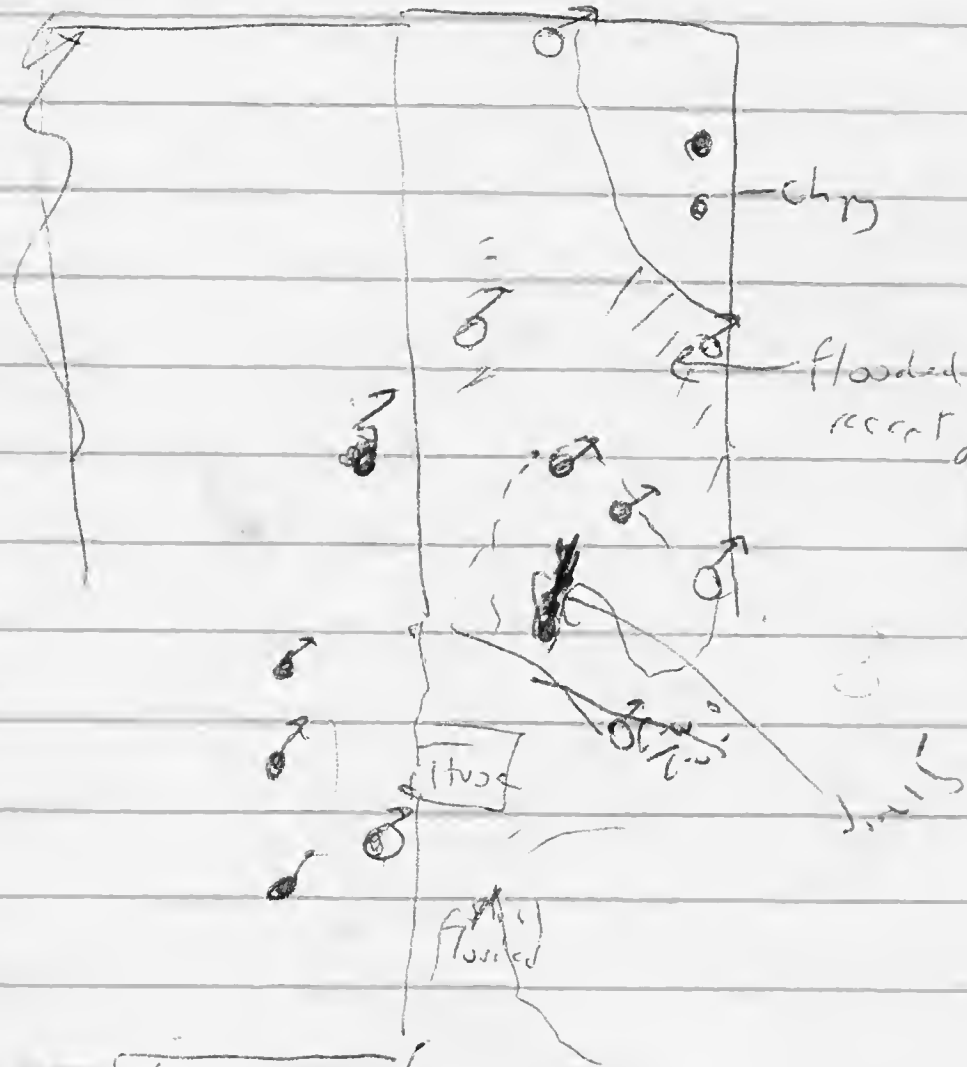
Leche Bird



all covered with silt from
flooding + very wet
b.t not actually
flooded except
in pocket

Afternoon of 14 June

Field 1



4:55
✓ check source
of PC

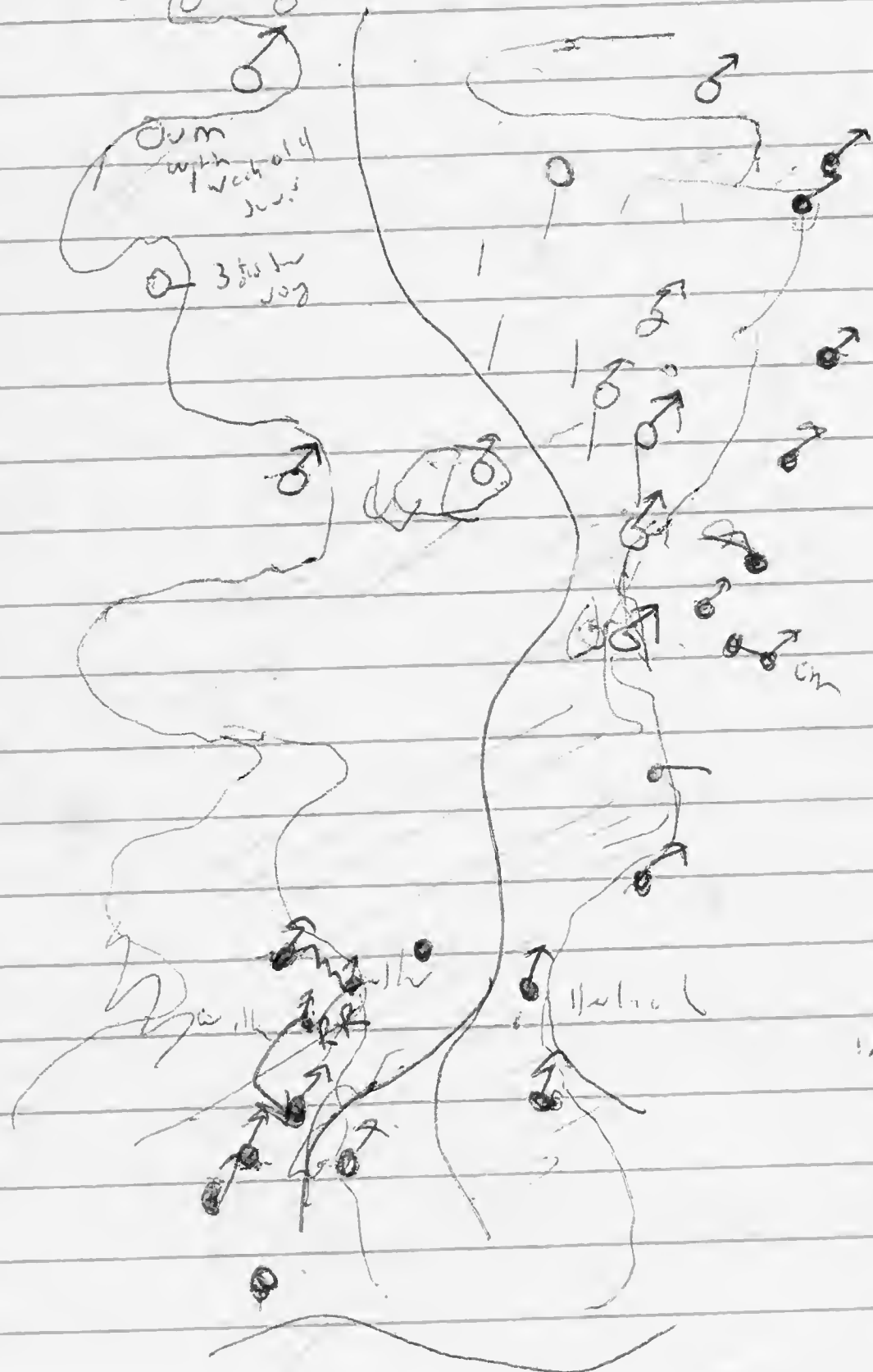
3:00
05.00

lots of singing in Swamp 2 by Swamp 1
has fledges I think

15 June Fair weather

Went out about 11:00 am

looking for ♂ Brown Red cree



in-l-d-
blw-6m
pm
also

Brown ...
better ...
flooded
Shed all ...
under water

Sunday July 1st

Monday Net Swamp 2

insect sample

Tuesday Net Pond area

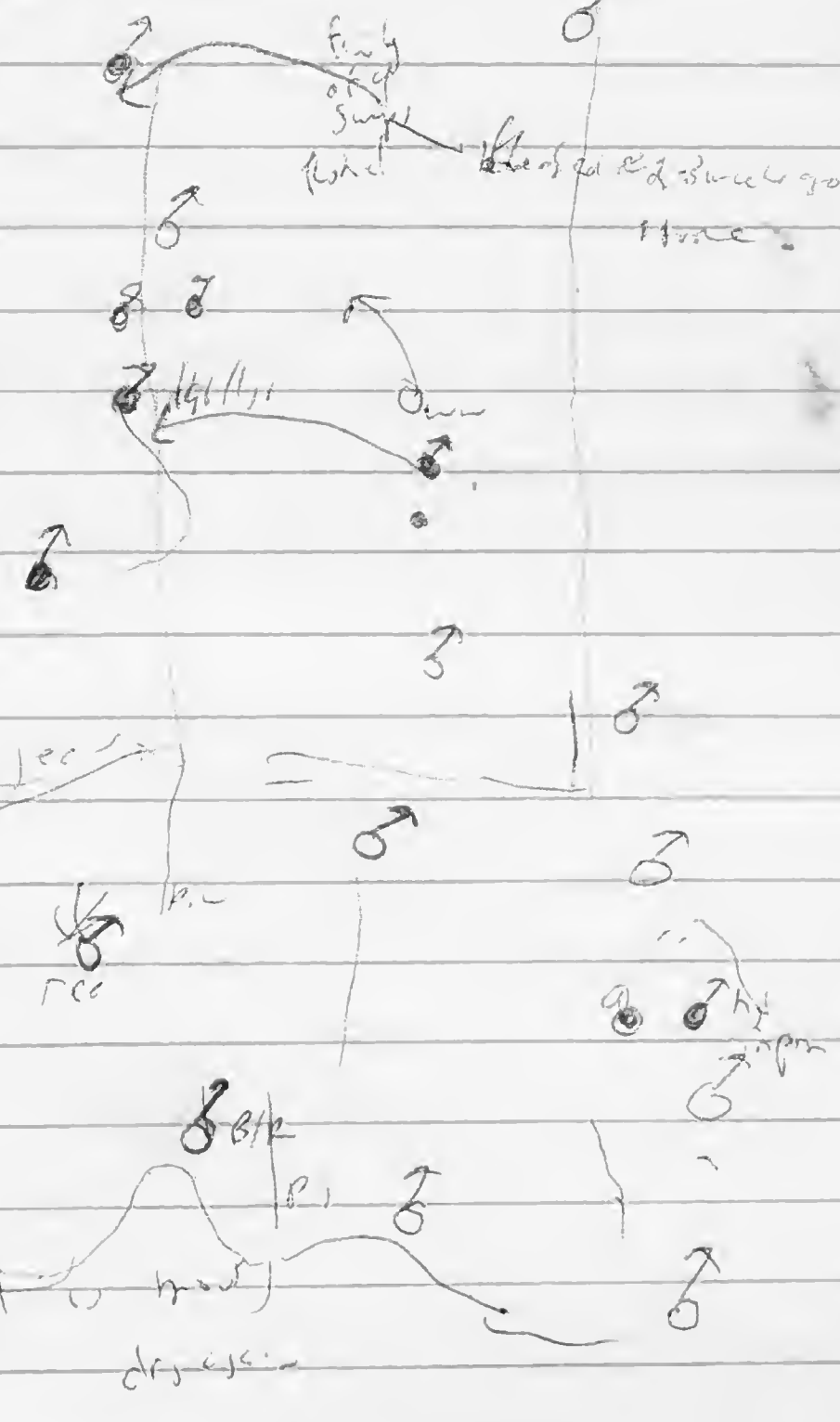
Wed

insect sampling

Thurs Net Field 1

for collect plants

Set collect plants



June 16

Swamp 2 netting

♂

2⁺ crown

W-R/P

6687

62 mm

CP?

Swamp 1 crown

BP

♀

Bl-W/P

6688

87 mm

W-B/Bl

recap

(O-O recap (same net)
BP ♀?)

♂

3-crown

60

CP

(dull red) bottom-out

R-W/B 6689

Sw

O/R

Jul 1

R/O left

6690

50mm

Sw

Jul 2

R/B left lost

Jul

Sw

dB/R

left

66

91

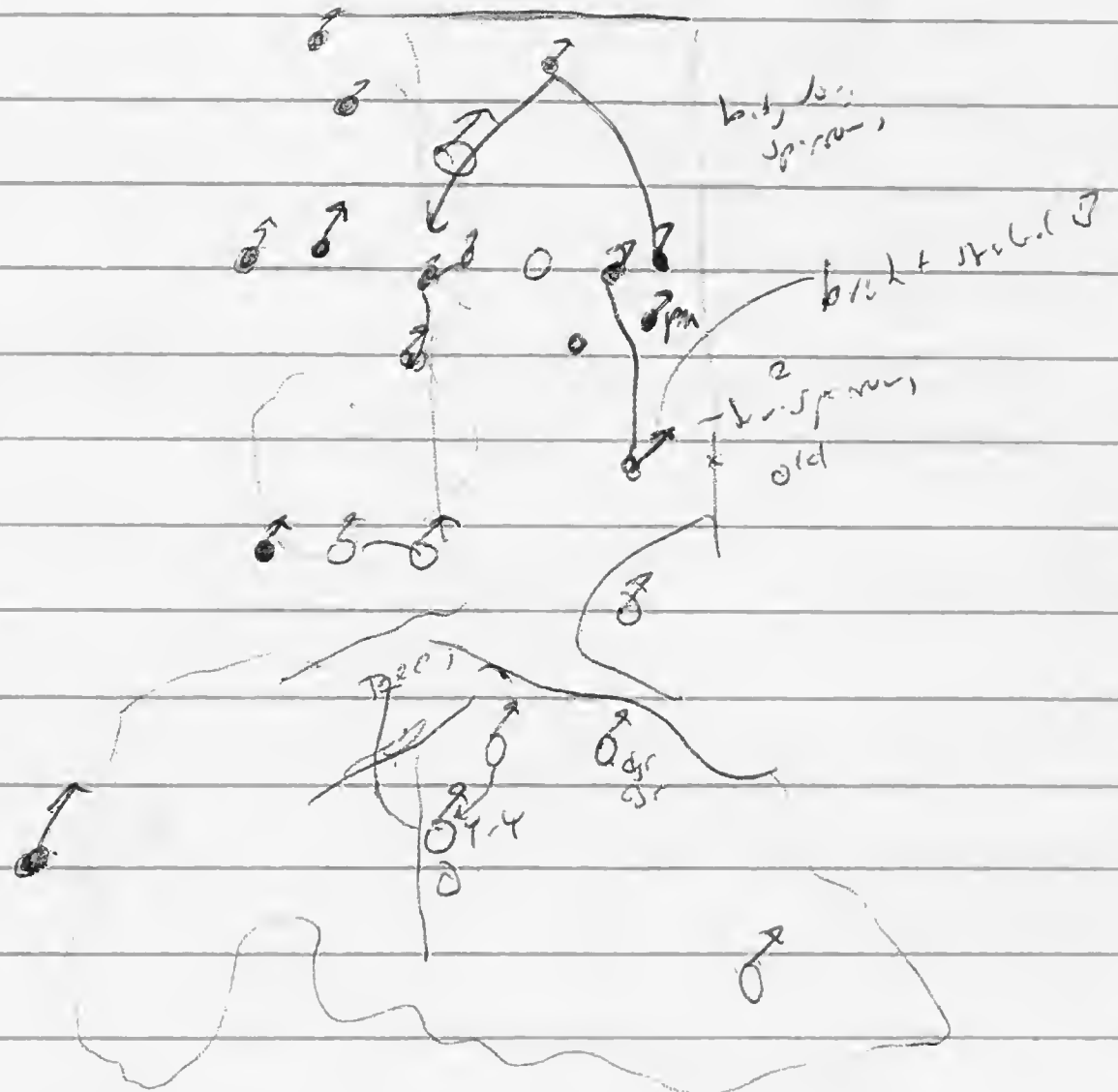
Jul 3

M.d-Swamp 2

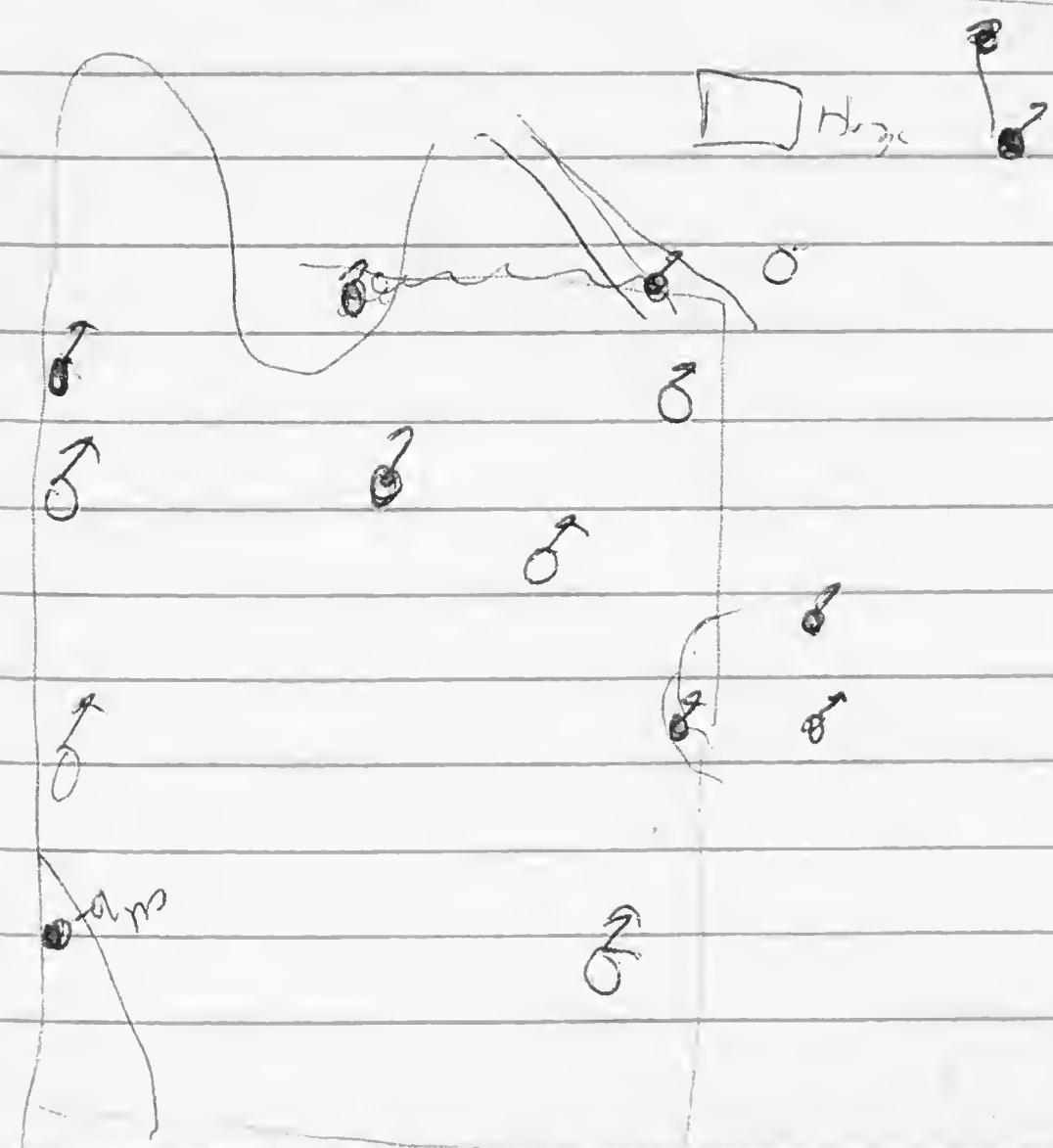
(O/R - w/ King)

Notes

Feeder



Field 1



Afternoon of June 16

Flooding from Muddy creek -

broken up into Vito's pond

& into Field 2 - This area has

been the most continuous of flooded

area in past 2 weeks & has

had several Swamp Sparrows take over

(Chow still present) all are marked

although I've only seen 1st/1st band

I let one on rd side of field this

PM

Mostly it's been too windy

Netting

6/17 Field 1

Song

♂ (cp?)

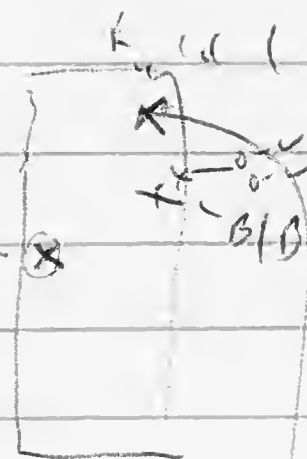
65m

Bl-w/P

6622

by House

Swamp



♂ cp

f crown dark on lower edge

62mm

66 52

blue/yellow

Song

Partial set of here

♀

bg

w-o/p

62mm

66 93

Song

comp R-R

Swamp

comp 6-10-3

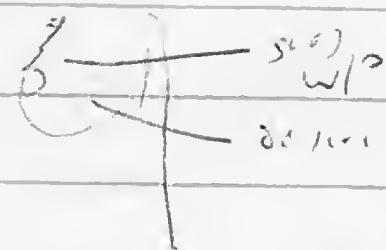
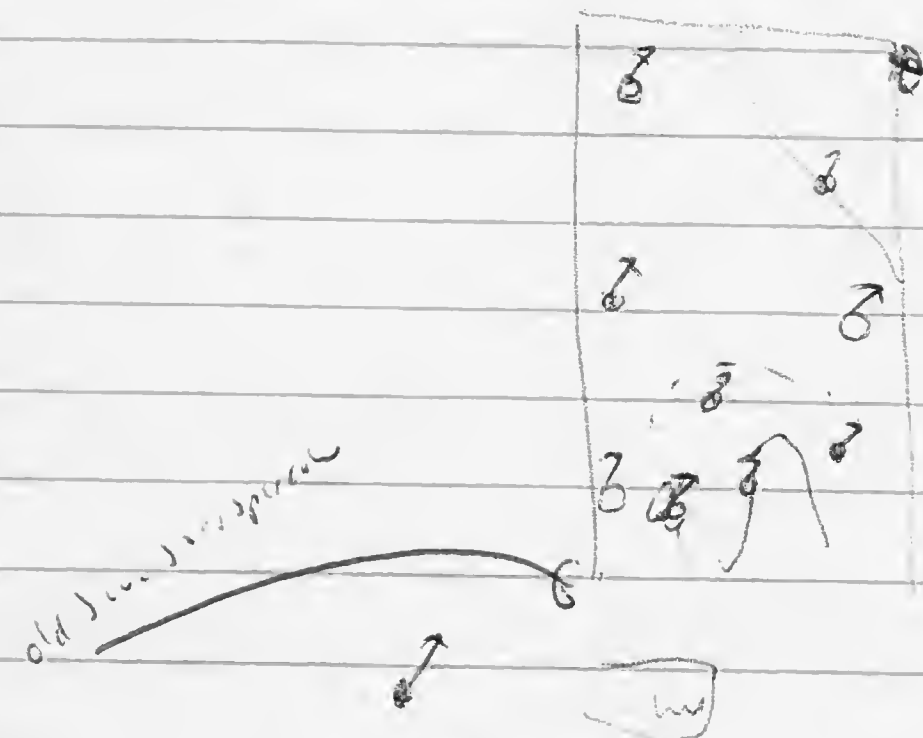
Swamp

comp

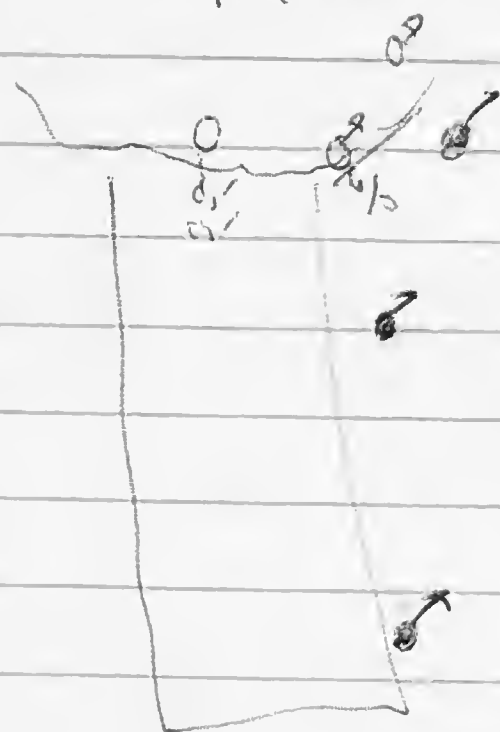
dB/dB

- 2 crown ♀ BP

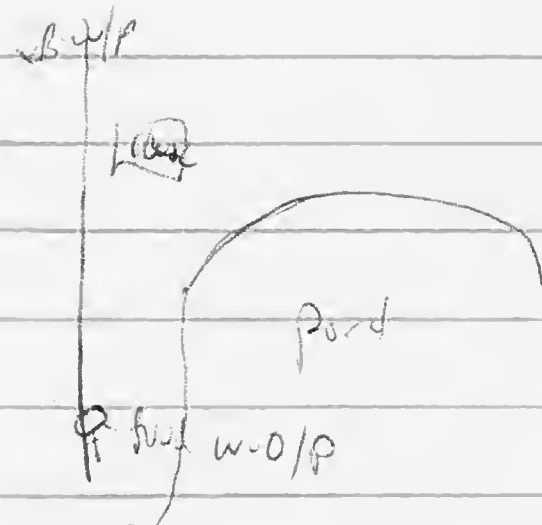
Notes: Flushing down
 despite short thunderstorm last night



Field 2 Not flooded



Scrub
 old low by camp 2-3 weeks old



June 17 - Sunny & breezy 70°

2-500
mint spray

Sa 1 Field 1

lost 5' homop. (5-10 min)
5 flies,
4-5 beetles,

Su 1 1 2" grasshopper
5-6 flies
(total 4 homop)
beetles)

Su 2 5-6 5-6 hairy

Sa 2 - RR hairy

Sa 3 O/6 hairy

Sa 4 RB/R

Some green m. rds?

Su 3 Su 2
4 grasshoppers

Su 4 (Brown D. m.)

10 flies

Notes for - This here

dried out a lot.

Dry Pond is mostly all the

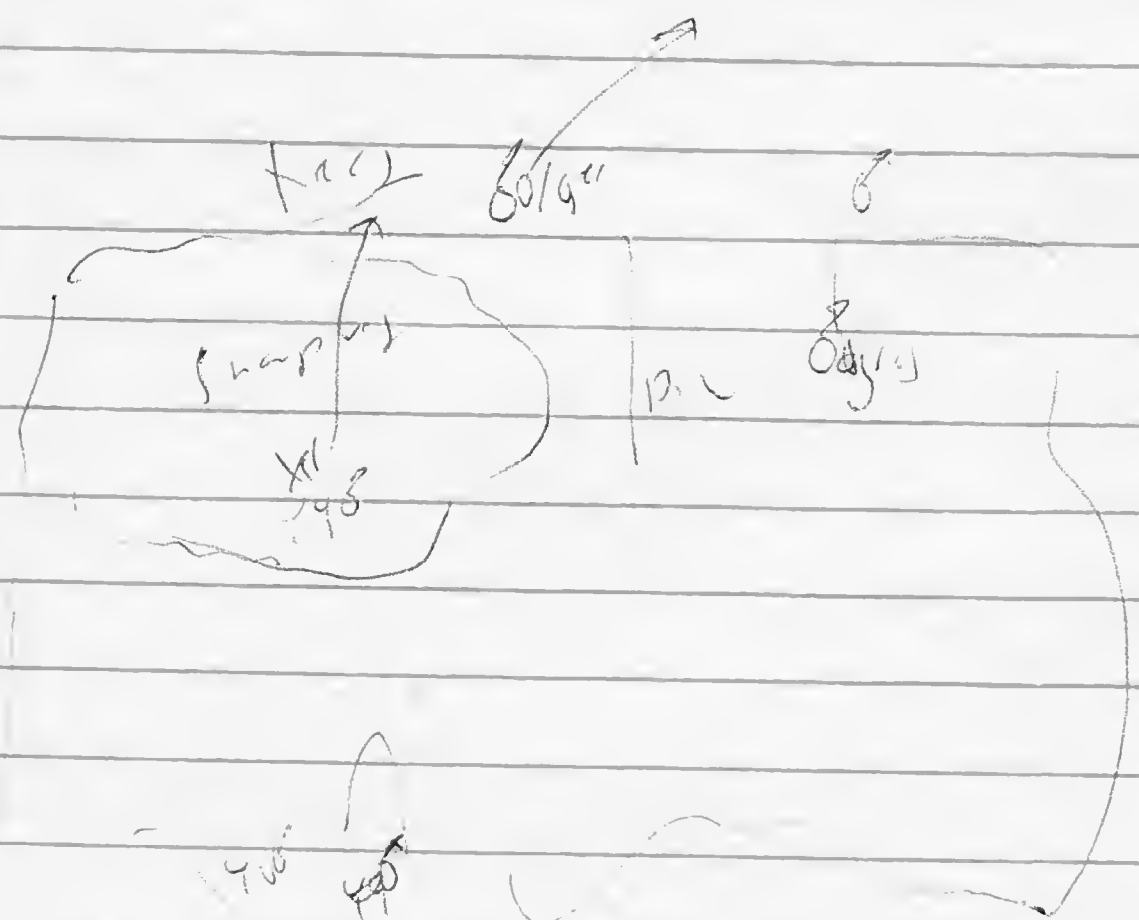
way across side creek

Now: much more dry than

on Saturday.

Field 2 is not flooded.

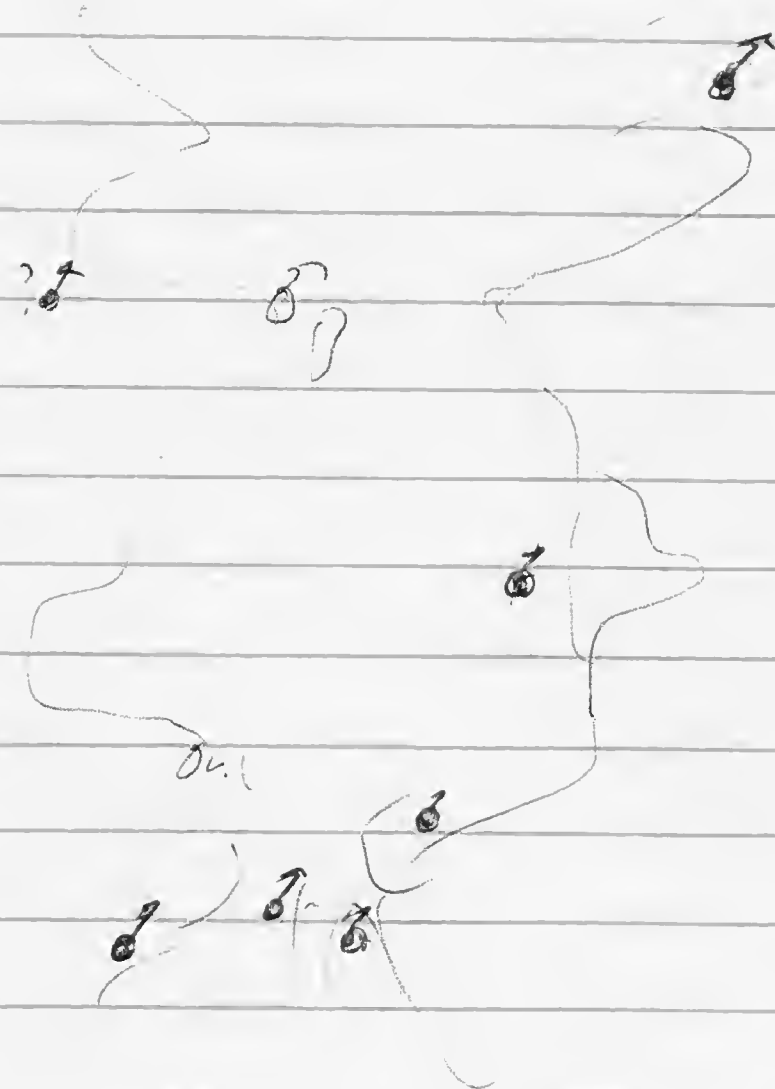
Now is Beaver Lake.



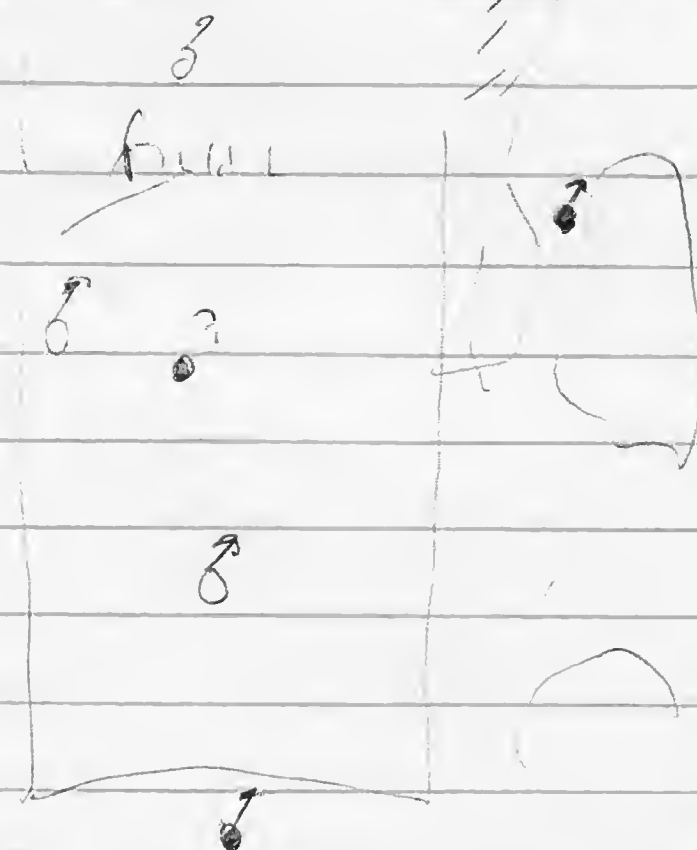
1000

was
in
the
field

Quiet on Beaver Lake



No signs of life



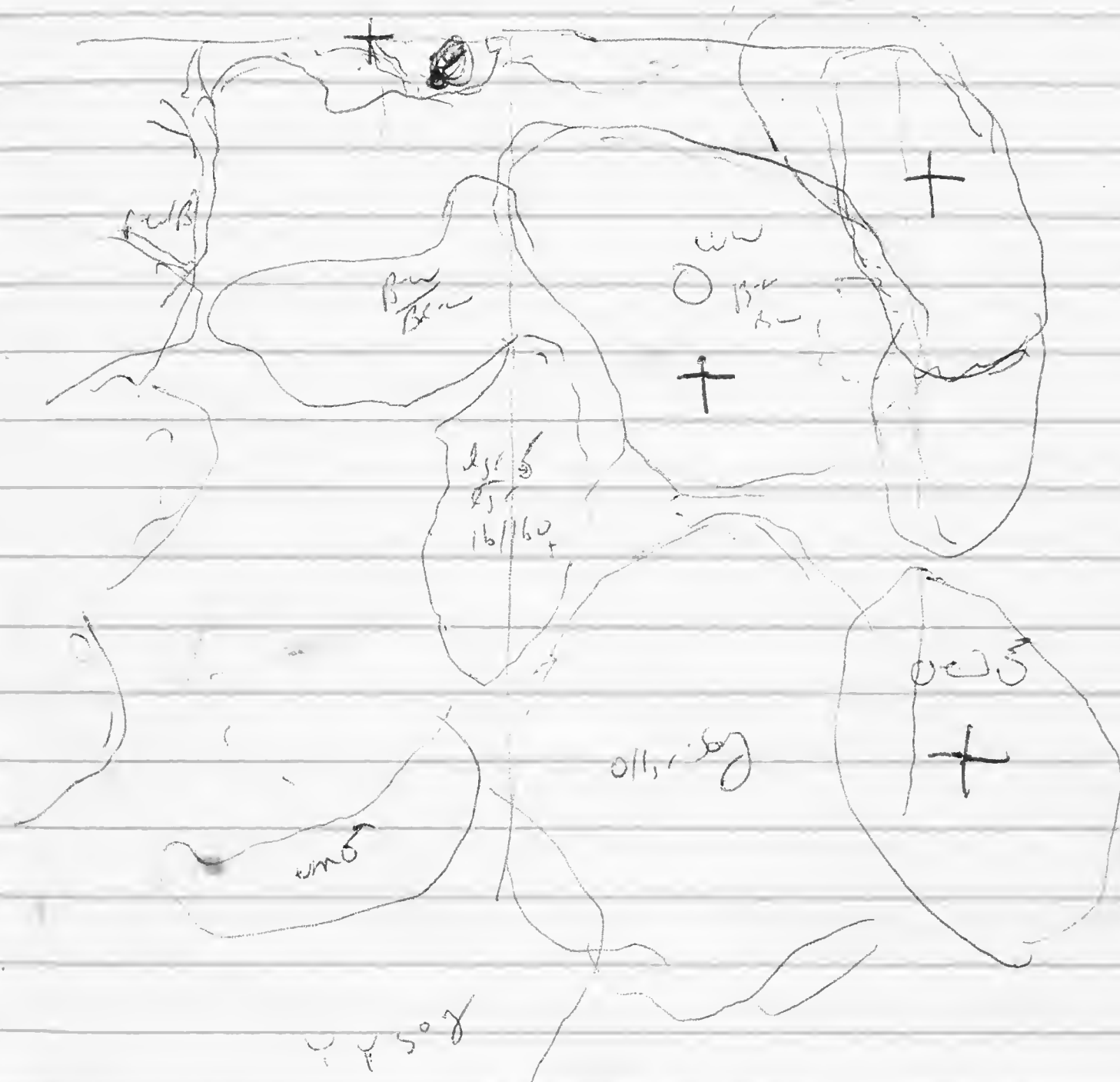
No signs of life from field

18 June PC cool my
field



idealized from my

f = terse with you



insect collection in Beaver Lake
(50 sweeps/sample)

Song 5

2 Long Flies
5+ Monids
1 Panzer 1

Song 6 = 6 loc thir

15-10 Monids +
at thiridys

Song 7 - Transper

2 Monids fast

Song 8

Song 9 - damaged veg
2 thiridys

Song 10 - damaged veg
1 hump
1 wing
2 thiridys



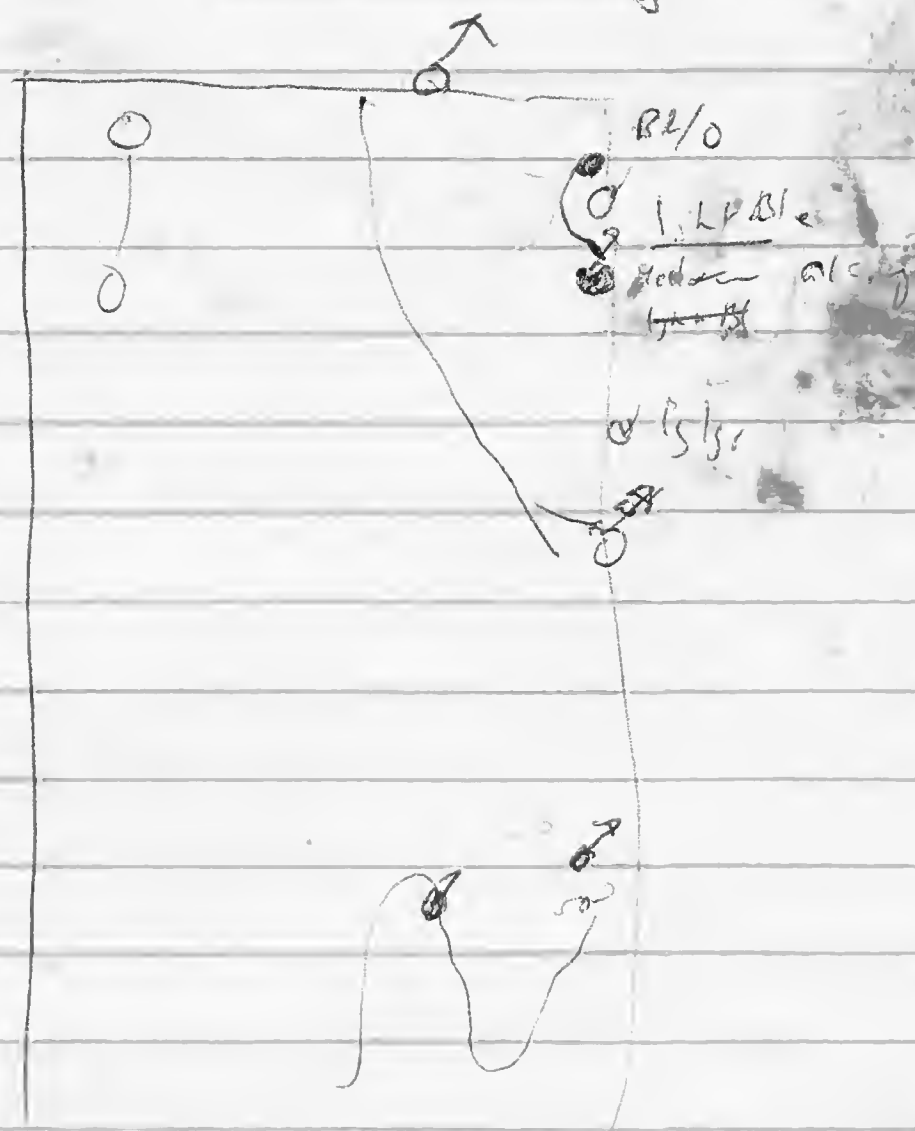
Song 11 - lost to fly
(crim)

Song 12 11 thiridys + 1 dimer

Resistant R/w-gr the
bird that spotted to
other side - has
a territory mid-Brown now

June 19 Field 1

Swamp at
mouth of stream
old yours in nest



June 19 Overcast $\approx 70^{\circ}$

soil temps Field 1

P-P

Dry

Wet corner

14.1

15.0

13.2

15.5

14.8

14.3

15.0

14.5

14.7

15.5

R-R territory

swamp - dry

14.8

13.6

15.4

13.2

14.6

13.2

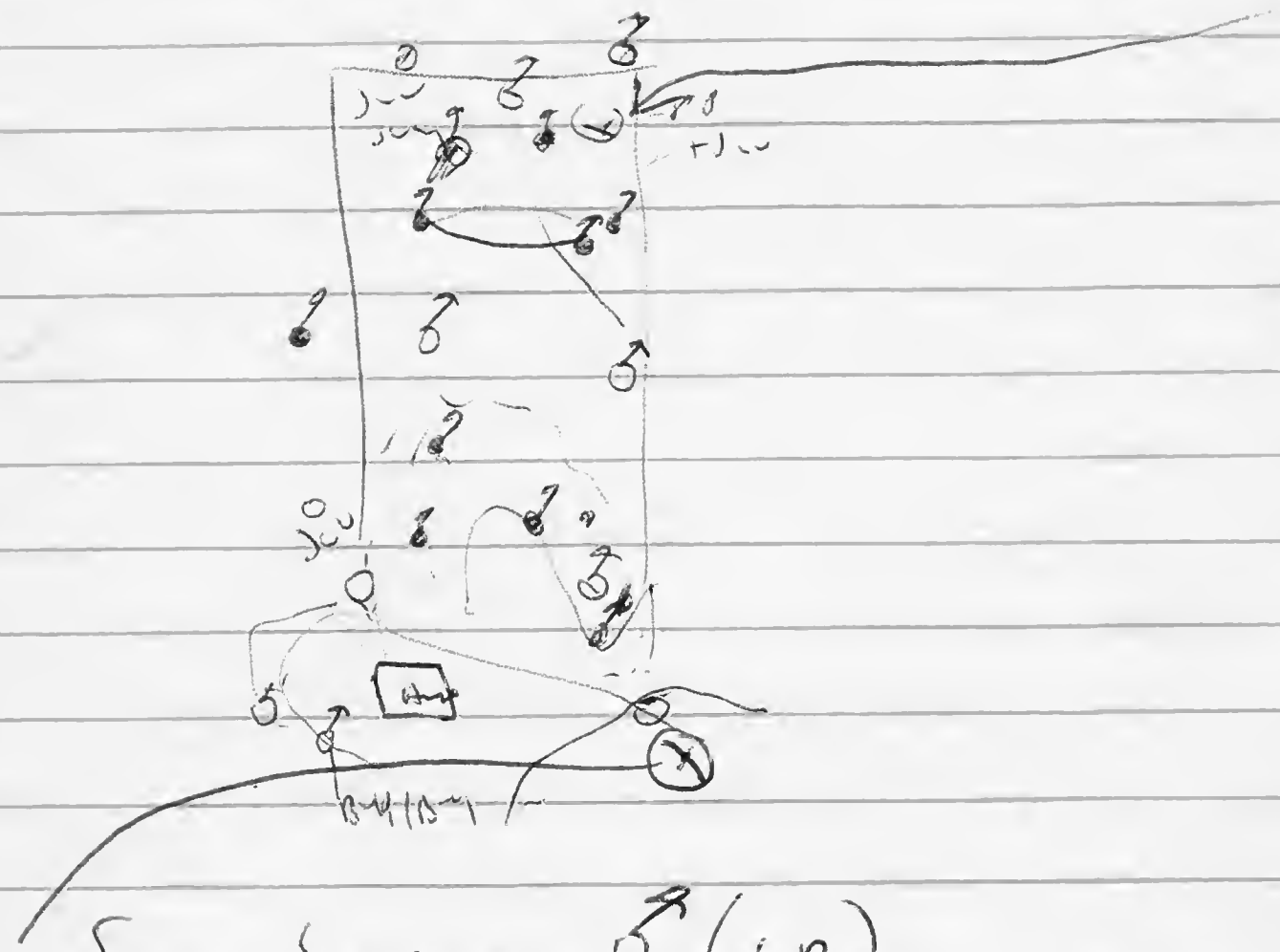
15.7

12.8

15.0

14.0

20 June netting field



Song Sparrow ♂ (cp)

66 371

♀/16

70mm wing

Leapt Song Pink/Pink

20 June

BL/4

BL/4

Rght

64mm wing

Song ♀

6/0

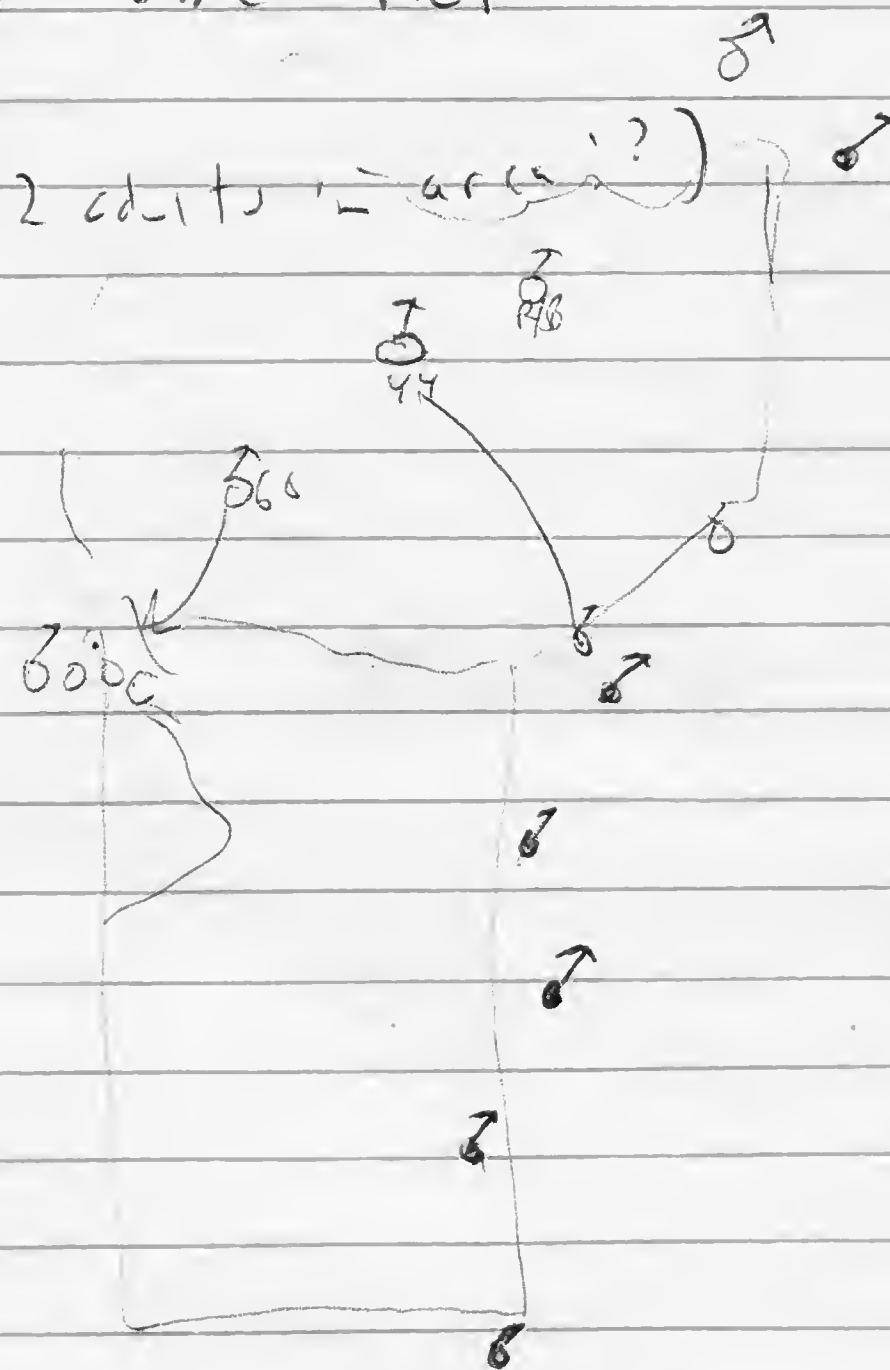
6r/3

94

64mm wing

Song Ju - some net

(2 adults in area?)



Field 2

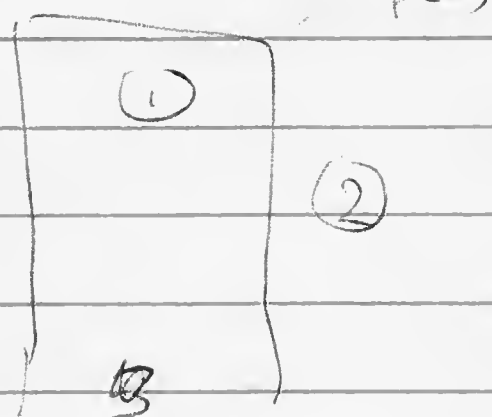
Both went dead

Soil temp

Sun = 70°

1300 June 20

Field 2



D

W

17.7

15.0

17.3

15.0

16.7

15.7

16.0

15.6

16.7

14.5

16.5

14.3

D

16.5

14.5

15.7

15.4

16.0

15.2

16.0

15.7

16.0

17.3

15.7

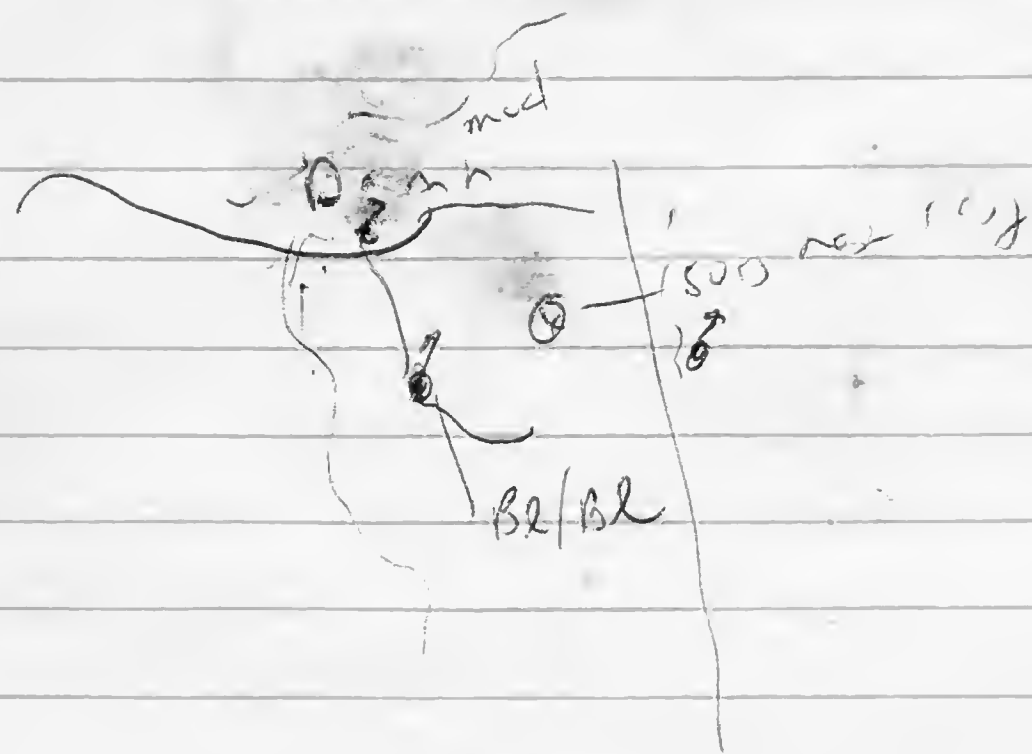
Brown Dink

D	W
18.6	16.0
18.5	16.1
19.5	15.6
17.6	16.2
18.0 17.8	16.2
16.6	16.2

for end of

Blue line

18.4	14.3
19	
18	14.8
16.3	
15.6	15.4
16.7	14.0
	13.7
	14.4



A hand-drawn map on lined paper showing a river system. The river flows from the top right towards the bottom left. Along the river, there are several symbols: a male symbol (♂) at the top, a female symbol (♀) further down, and two male symbols (♂) near the center. The word "Duck" is written in the middle of the river. On the right side of the river, there is a small, irregular shape. At the bottom left, there are two more symbols, one male (♂) and one female (♀), with a small circle between them. The river ends in a wavy line at the bottom left.

A hand-drawn map of Field 2. It features a rectangular area defined by a vertical line on the right and a horizontal line at the bottom. Inside this area, there are four points marked with male symbols (♂). Outside the rectangle, there are two more male symbols at the top and one at the bottom left. A wavy line runs horizontally across the middle of the page, passing through the rectangle. The text 'Field 2' is written at the bottom.

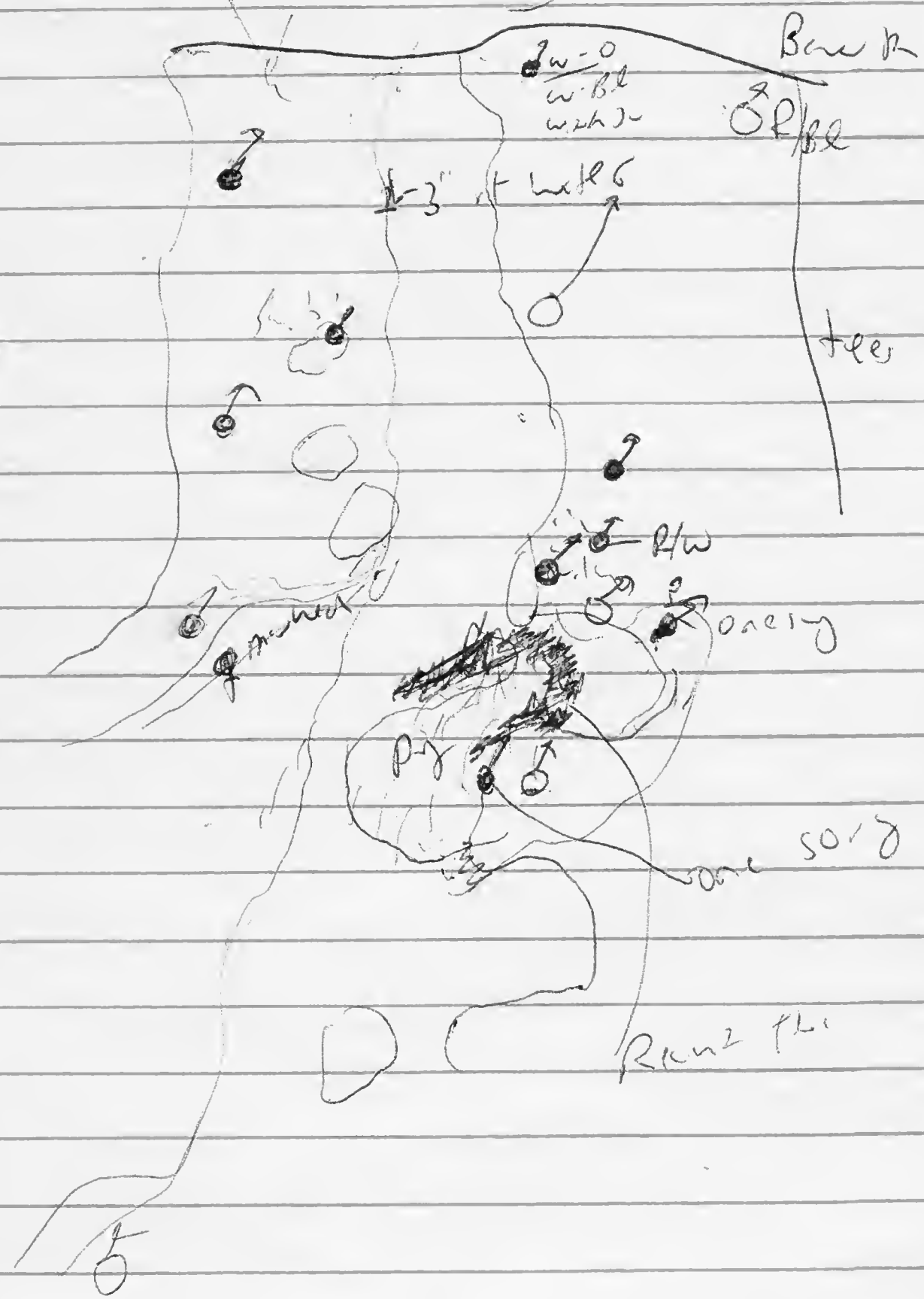
21 June 8-11? Sunny 70°

Dy House (connected) Re-IP-4 (has broad
ring)

A hand-drawn map on lined paper showing a study area. The map includes several points, lines, and labels. At the top, there is a point labeled 'dec' with an arrow pointing to it. Below this, there is a point labeled 'L. L. W. L.' with an arrow pointing to it. In the center, there is a point labeled 'shb' with an arrow pointing to it. To the left of 'shb', there is a point labeled 'in' with an arrow pointing to it. To the right of 'shb', there is a point labeled 'in' with an arrow pointing to it. At the bottom, there is a point labeled 'Jew' with an arrow pointing to it. There are also several points labeled with male symbols (♂) and female symbols (♀). The map is divided into several sections by lines, and there are various other markings and labels throughout.

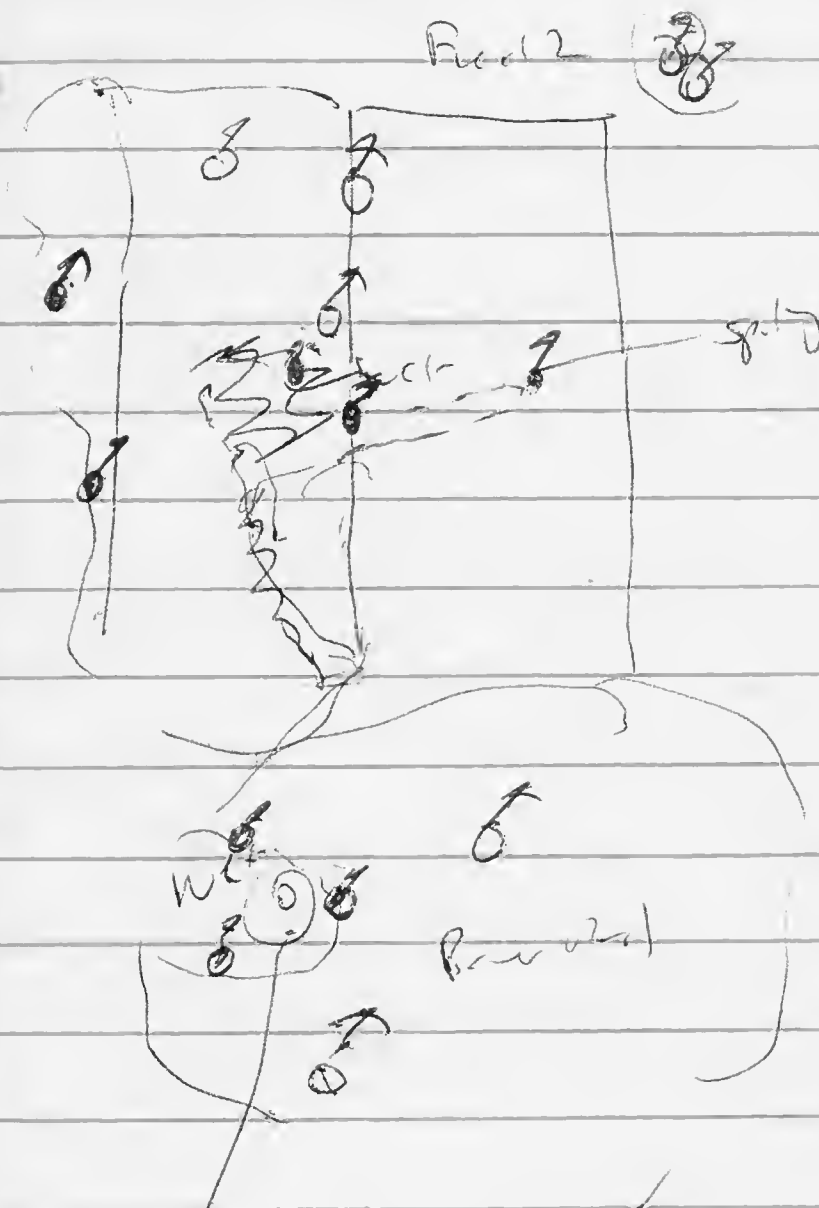
4. 5×10^3 garfish live in the
ocean. There are 1000

Aug



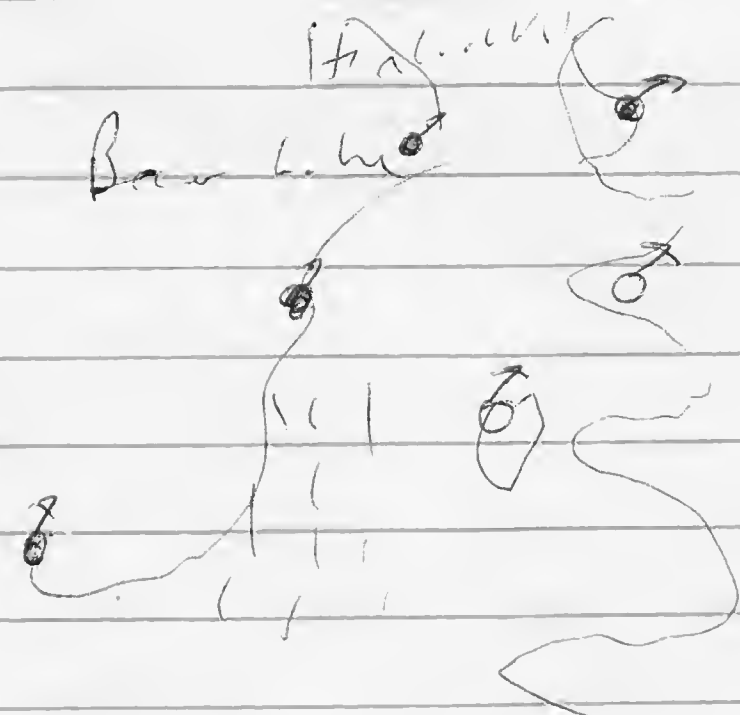
flour (11)
dry
unobscured

July 2



cond. time very
dry
part. 50/8
Sep 2 -

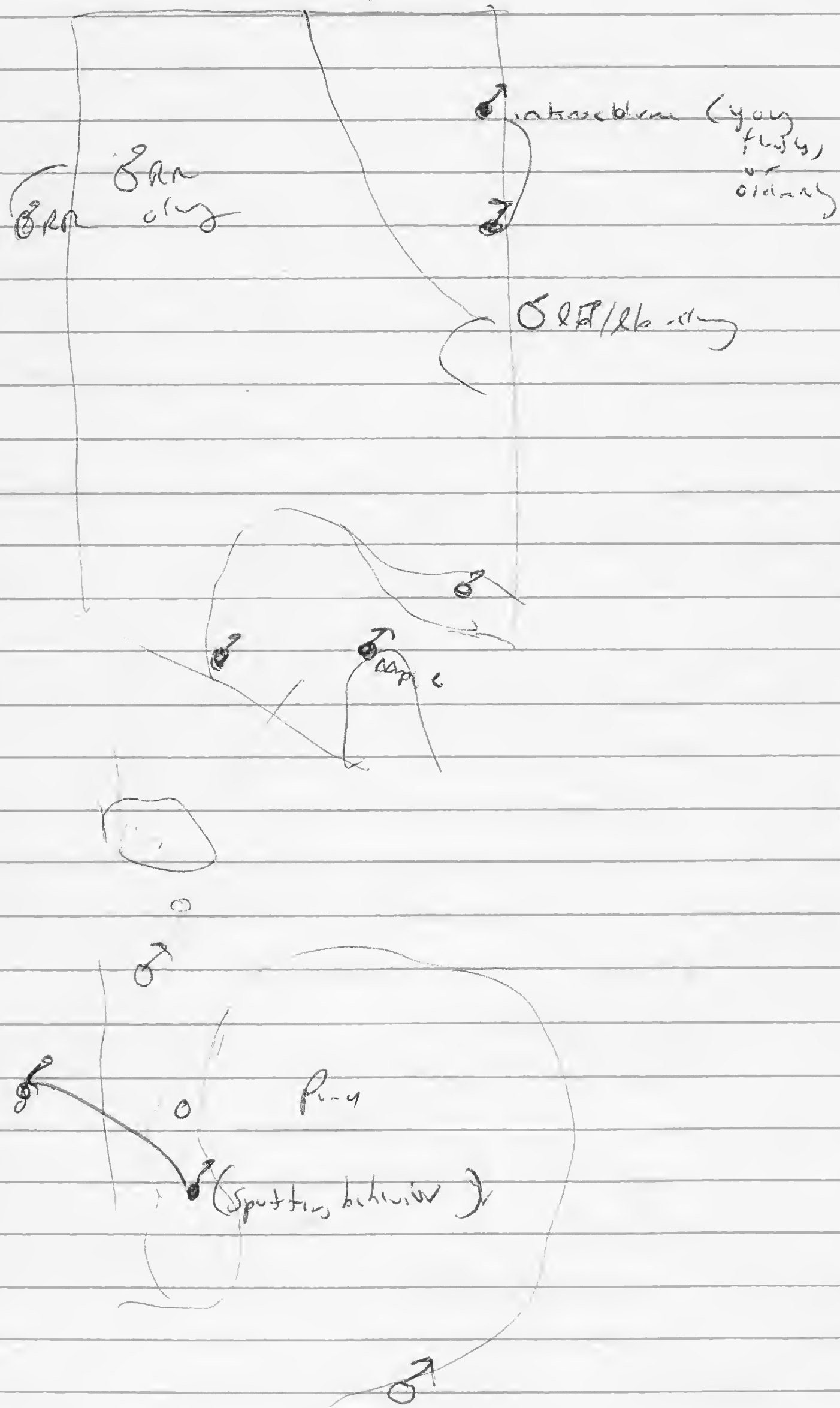
fl. h. ut
Juv. 50/8
18pm



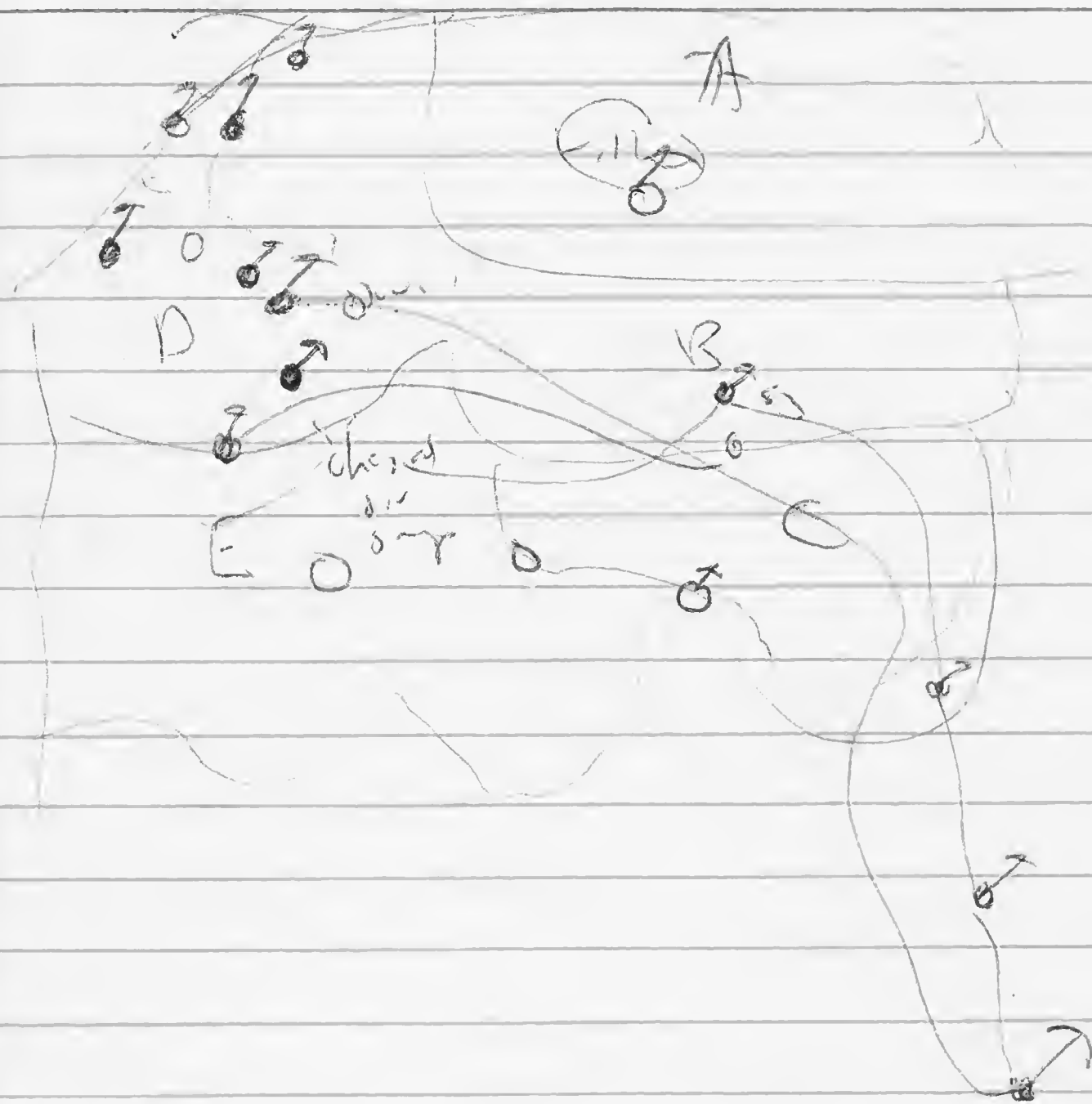
July 8

overcast + mod temp

Field 1

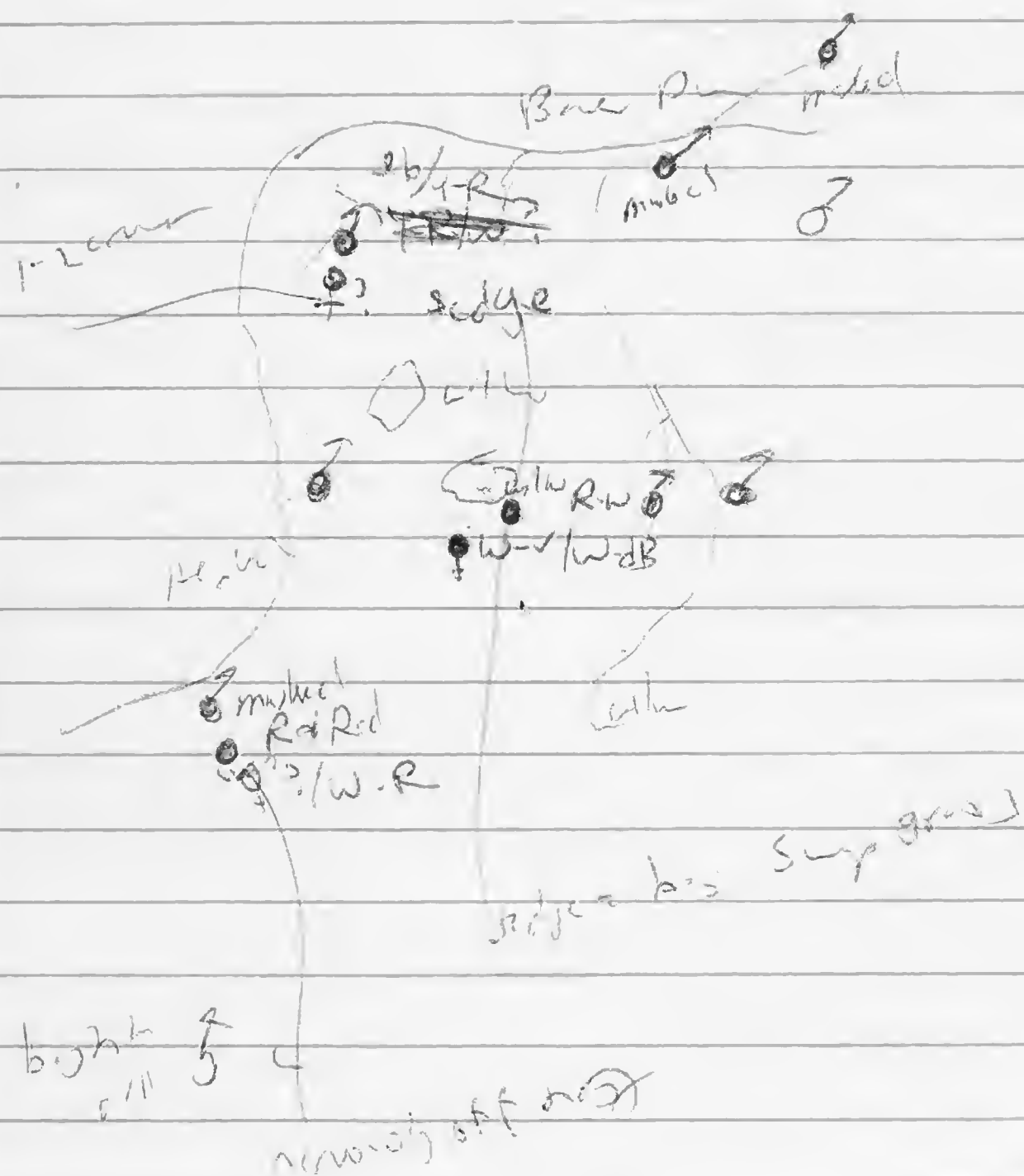


Sampling of all Brown



7/8 500- (rained in afternoon)

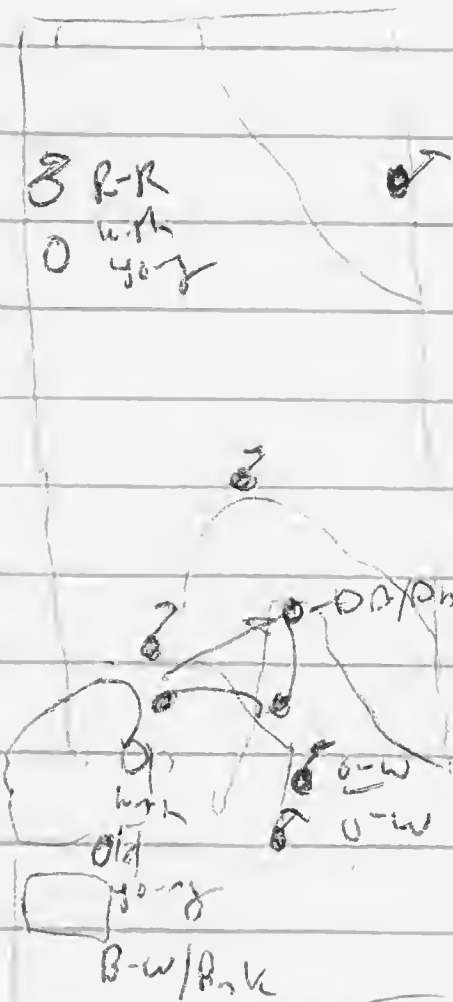
1-5/1-5 in old Bear Pond



all 9 from ground

7/9 0600-2 1130-

rained all day
all mud

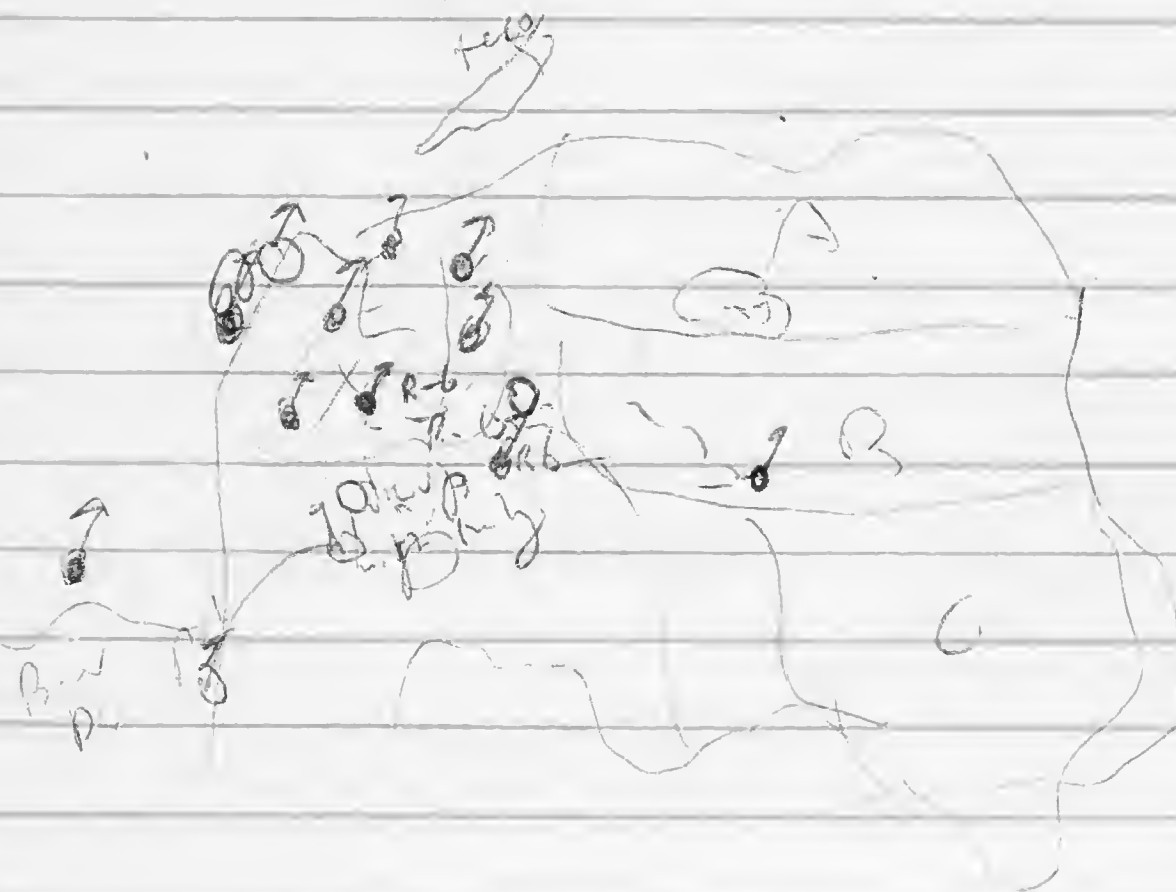
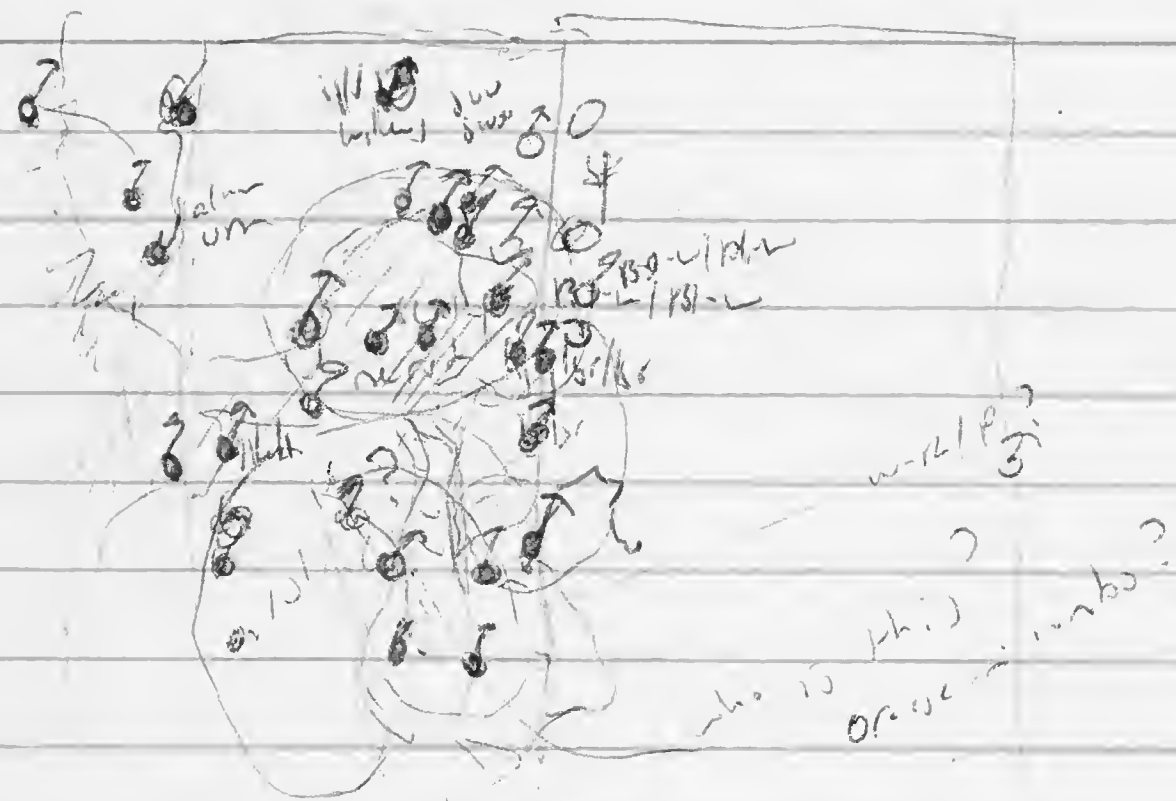


2 times

Field 2

W. A.

afternoon (11:45 to 12:27)



Broken

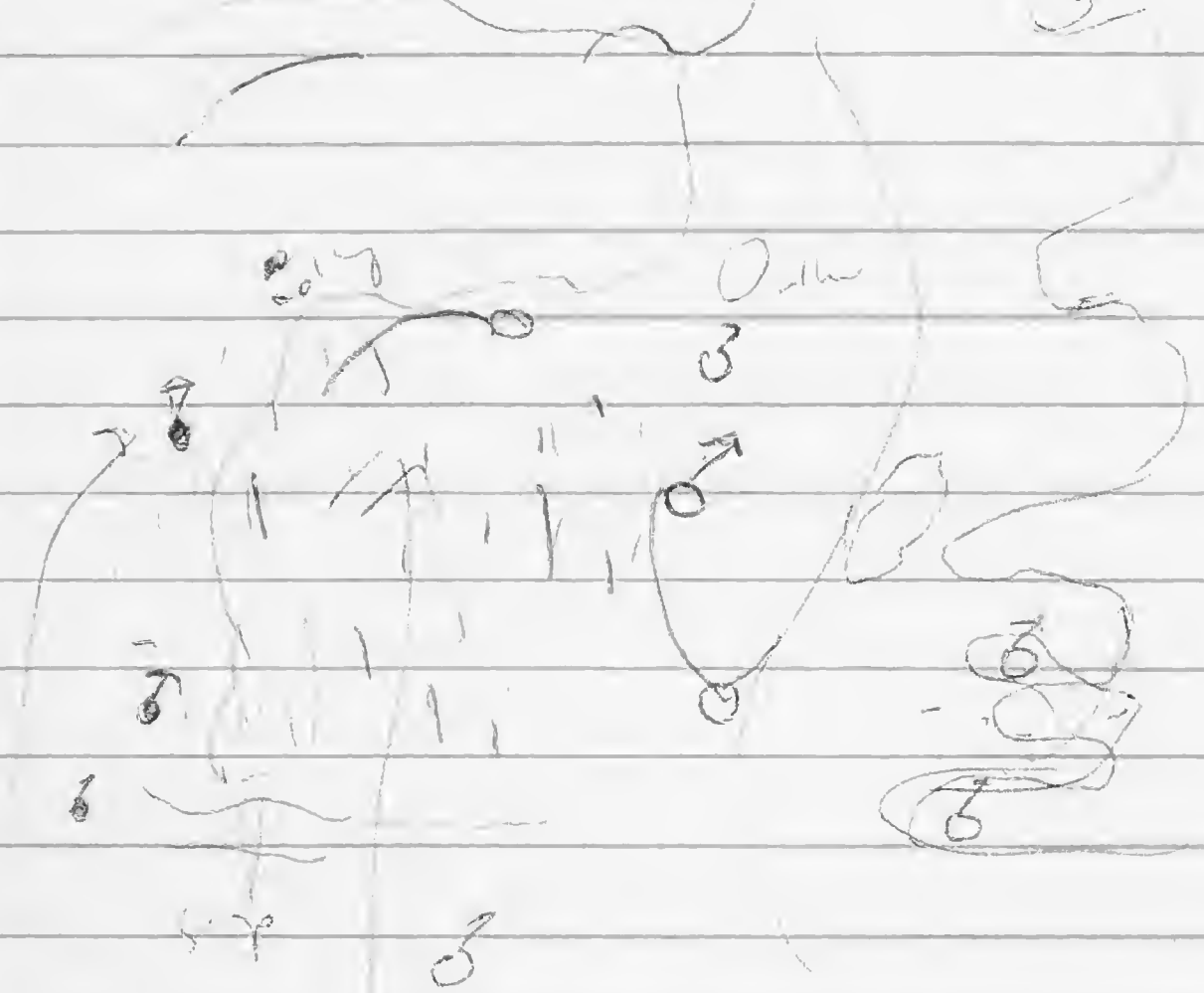
Om

General impressions: Things have dried out considerably even though it rained all night last night. Only the very center of old Brown runs is at all wet & it has no water. This is the core of the old water, & I see no evidence of it - Song sparrows young are all over the territory.

Swamp near Vito's house is spotty to willow - but the road has now a core that willow last year is flooded & birds return to normal habits for most of the time.

The only bird to be spotted once in 2 days.

1844-1845



no 505

7/9 in 100 mg

partly for Sup
Spirrows!

There are 2 parts
with for

fishy

2-1 Sup at 11:00 AM
very flooded

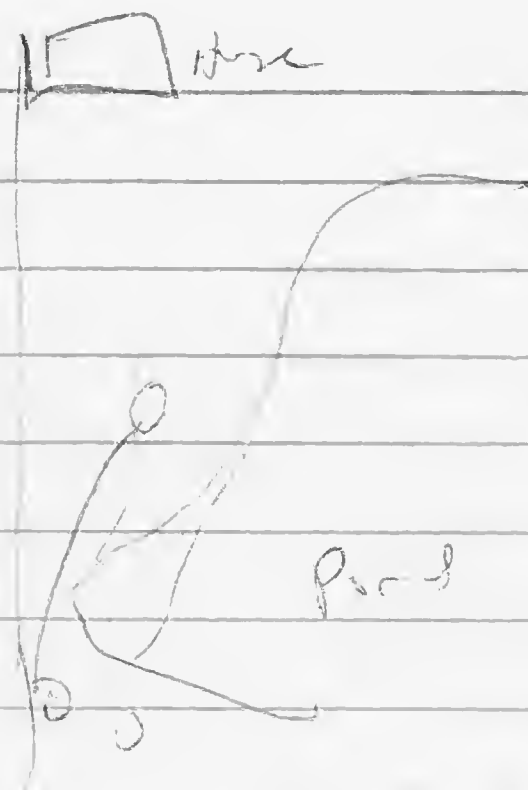
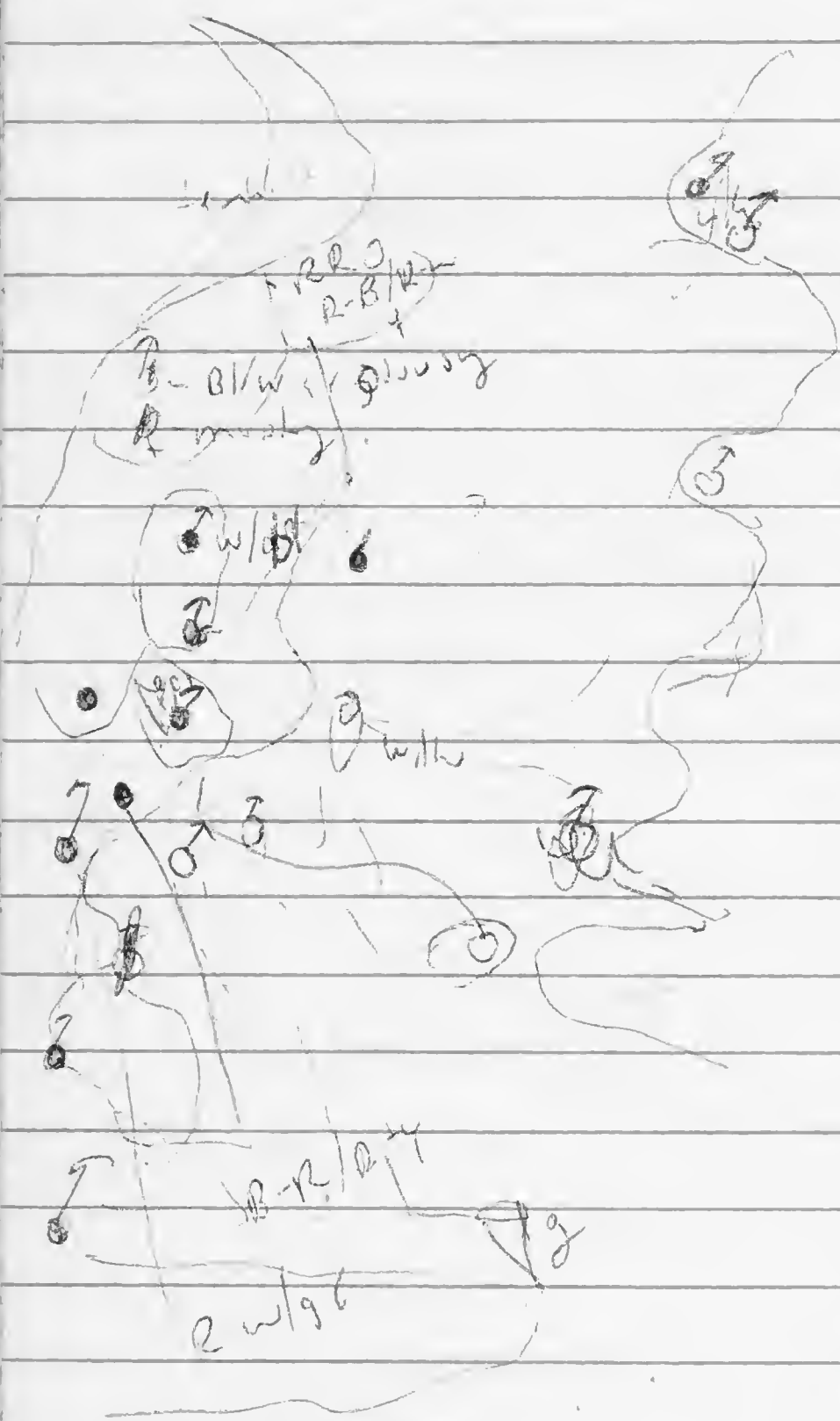
710



$\frac{1}{\sqrt{2}}$

At least 8 hundred 5 in Box
Dum
all

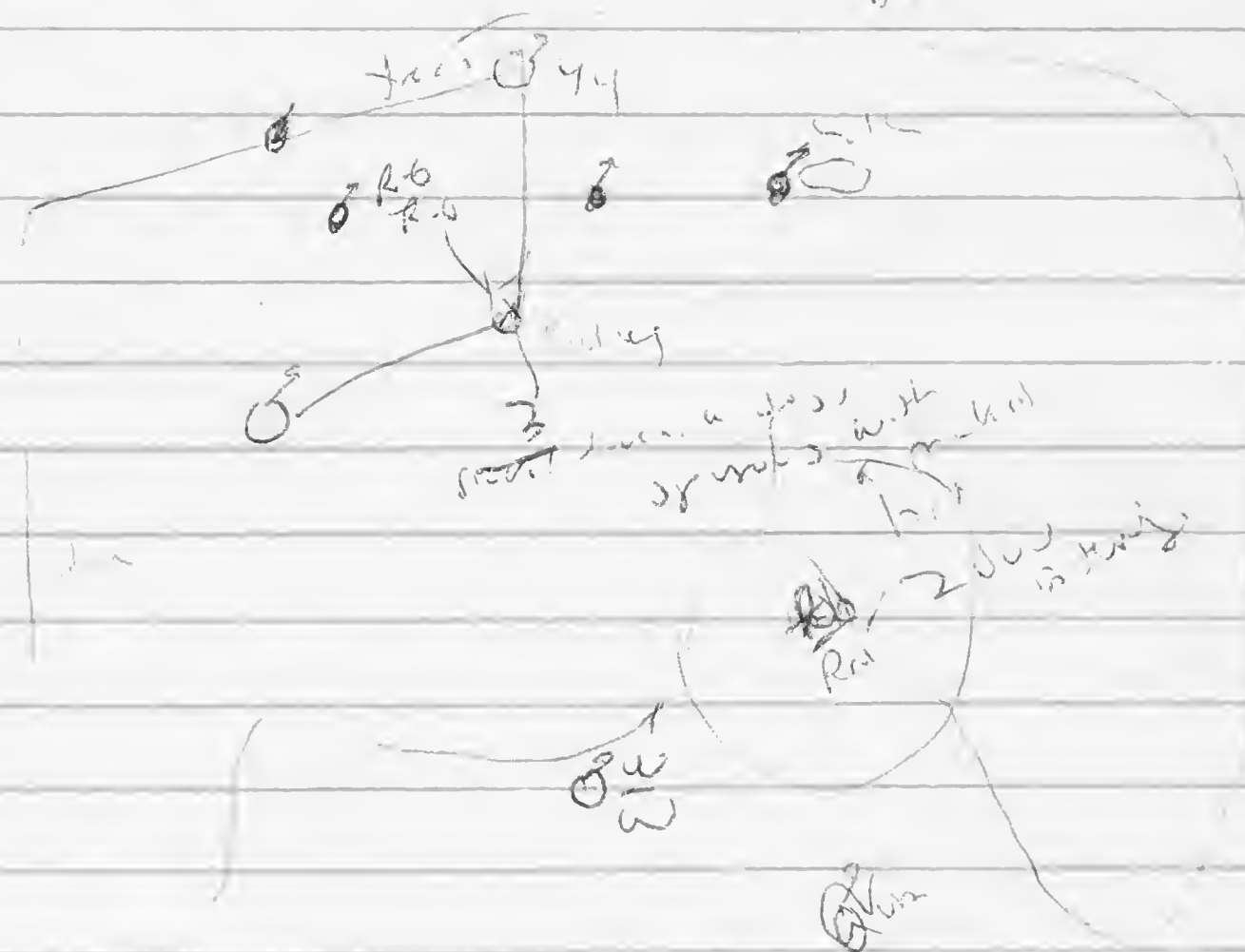
B. h. s. L. h. c.



$W/dB \sim dB$

21. 22

from 1000



7/18 am / pm

at 6-10 week

[illegible]

1932 - 1934
Re 1932

7/13

1/13

14w

chased 50m 50 2x

o/w/Pink with nest r 3 eggs

Paul

Frail 30
6-6

to find the new
Bee

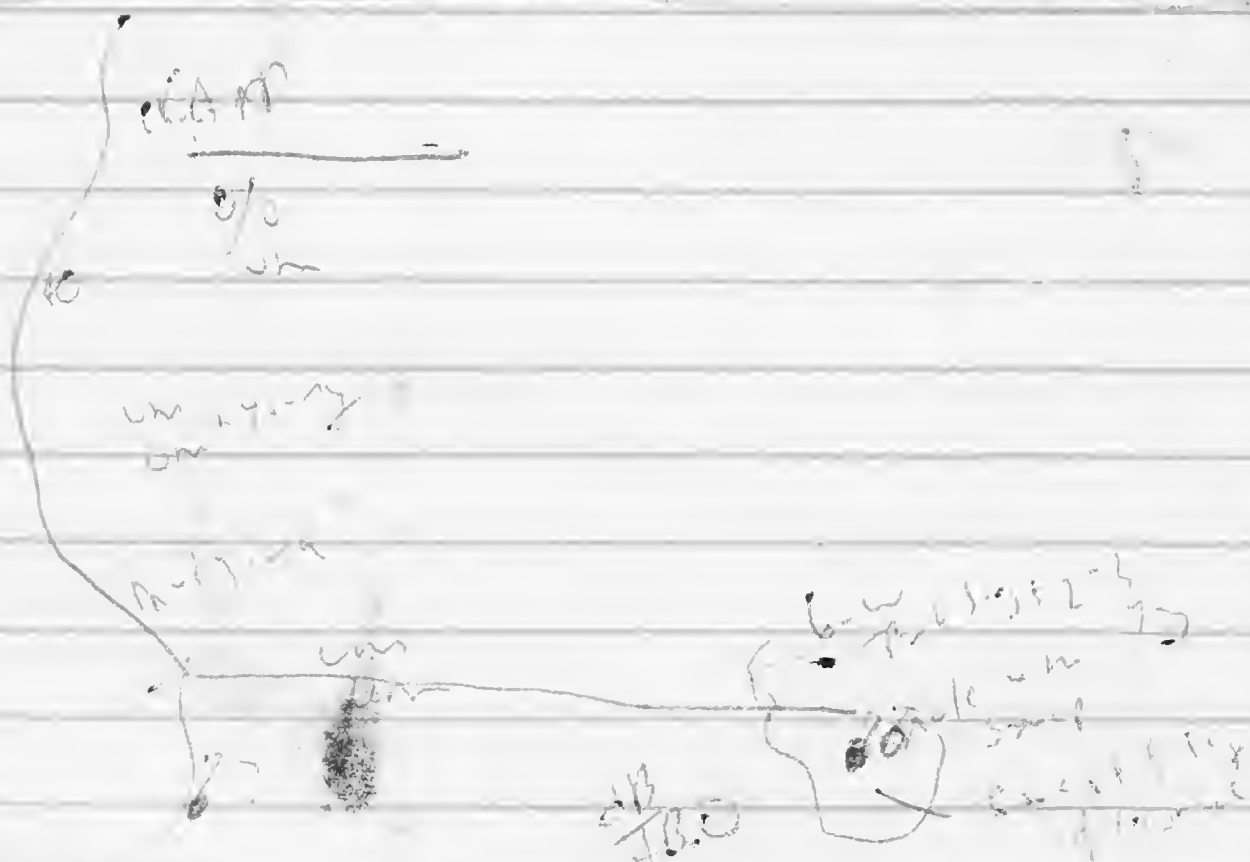
Grand Reef
Grand Reef
Grand Reef
O +

area

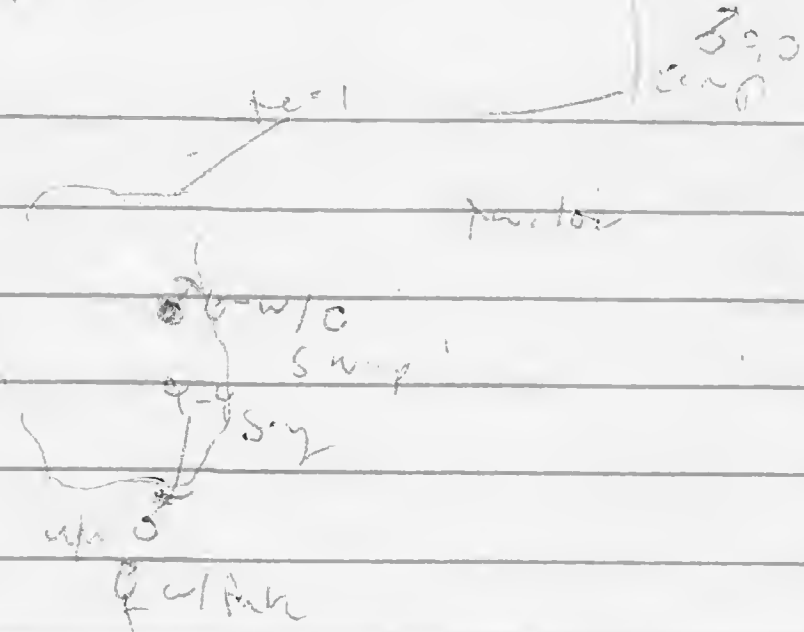
Sample

Brewer Antnest. Sect. U

0.4	FR	0/1 with S	4
0.4	R	S	4
0.5	S	S	4
0.5	SP	1/2	4
0.4	FC	S	4
0.3	C=6	S	4
0.4	C-f	S	4
0.4	C=6	1.1	4
0.4	C=6	S	4
0.4	C=6	M	4
0.4	C=6	S	4
0.4	FC=6	S	4
0.4	FC	M	4
0.4	C	S	4
0.4	FC=6	M	4
0.4	FC	S	4
0.8	C (fem)	S	4



July 19 - playing dates, tape PM 3:00 - 7:00 PM



Note 6-10

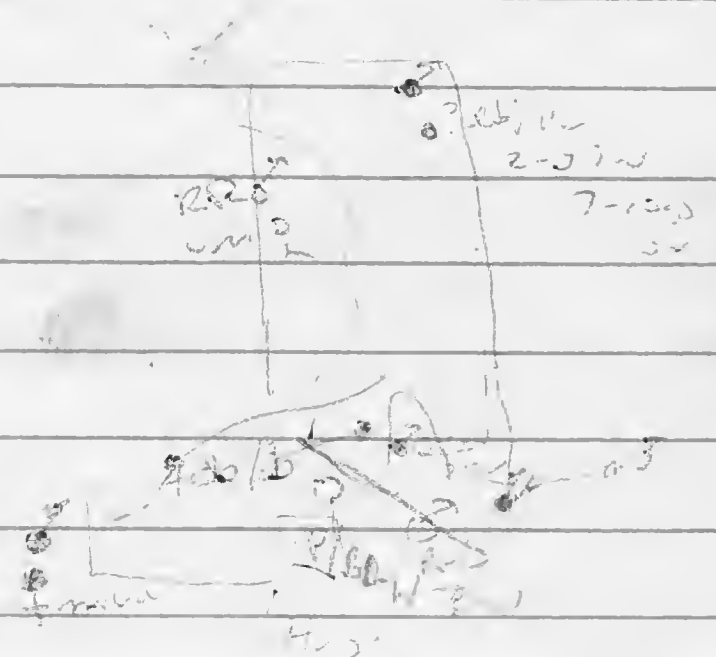
Swamp

no replaced

R-6/R-6

then or w/ back R-6/R-6

Field 1



drawn 7/10



7/10 Brewer Lake visit from survey

1.8	6.	B	1BB	D	Area 1
0.6	FS		0	P	1
		Pin. BB thicket			1
2	FG		0	D	1
0.7	F		0/100	D	1
0.5	FS		0	D	1
0.3	Grey (bass)		0	S	1
0.4	GF		0	M	1
2.0	G		0	P	1
0.8	F		2BB	P	1
0.6	FS		0/1	D	1
0.3	S BB thicket		2/1	D	1
0.6	SP		0/1	D	1
		BB thicket		P	1
		BB thicket		D	1
0)		3P	D	1
0.8	FG		1/2BB	D	1
0.4	Grey (bass)		0	D	1
0.4	Grey (bass)		80	SP	1
0.4	Grey		0	S	1?
0.5	Grey-bass		0	1/2	?
0.5	Grey (bass)		1	M	1
0.3	Grey (bass)		0	M	1
0.5	B-C-F		0/3BB	D	1
0.6	B-S-X		1/100	D	1
0.4	SG		0/1BB	D	1
0.50	B		1/2BB	P	1

④ 0.5 GS 0 D 1

BB + 2.64

"

1/80

F

2/20 D 1

1/80 4

GS

1/100 D 1

0.3

FS

1/200 D 1

0.4

S

1/100 D 1

0.5

S

1/100 D 1

0.8

S

G S 1

0.8

SF

1/100 S 1

0.8

S

0.8 M 1

0.6

FC

0 D 1

0.6

FG

0 D 1

0.4

FG

0.10 D 1

0.6

S

0.10 P 1

0.8

S

1/100

BB + 2.64

BB + 2.64

0.4 S (6.00) 0 M 2

0.4 F 0 M 2

0.3 S 0 M 2

0.3 S 0 M 2

0.3 S 0 S 2

0.3 S B.1 0 S 2

0.3 C 0 S 2

0.4 F 0 M 2

0.3 S 0 M 2

0.3 S 0 M 2

0.2 S 0 M 2

0.6 F 0 M 2

0.4 G 0 M 2

0.7 FB 0 M 2

0.4 FC 0 D 2

0.3 F key 2BB D 2

0.3 FC 0 D 2

0.3 C 0 M 2

0.0 F 0 P 2

0.5 G-S 0 M 2

0.6 F 0 S

Vegetation 1-10 in old map

1m.
2m

Plot class Row

1	0.5	Brass (phlo.)	1 Workman	D Sup 2	
2	0.3	Cross phlo.	0 1/2 Pgs	D 7	
3	0.6	sedge	2 1/2 Pgs	D 2	
4	0.3	grass	1 Pgs	D 2	
5	0	0	0	D 2	
6	0.3	G/S	1/2 Pgs	D 2	
7	0.2	Carex	2/3 Pgs	D 2	
8	0.3	Am. b (Phlo.)	1 Pgs	D 2	
9	0.1	Carex	0	D 2	
10	0	0	0	D 2	
11	0	0	1/2 Pgs	D 2	
12	0.3	Am. b (Phlo.)	0	D 2	
13	1.2	R	0	D 2	
14	0.3	Am. b (Phlo.)	1/2 Pgs	D 2	
15	0.3	Carex (Phlo.)	0.8	D 2	
16	0.2	Grass	Viburnum	D 0	
17	0	0	0/2 Pgs	D 2	
18	0.2	B. b	0	D 2	
19	0.4	Carex	0	D 2	
20	1.3	Grass	Willow	M 2	
21	0.2	Am. b (Phlo.)	Willow	M 2	
22	0.4	Grass	Grass	D 2	
23	0.2	Am. b (Phlo.)	0	D 2	
24	0.3	Phlo.	2 Pgs	D 2	
25	0.3	GSR	3 Pgs	D 2	
26	0.3	Carex	1 Pgs	D 2	

0.2

27	FS (Phlo.)	1 Pgs	D 2	
28	FS (Phlo.)	3 Pgs	D 2	
29	0.6 RB	0	D 2	
30	0	0	D 2	
31	1.2 R	Willow tree	D A	
32	0	0	D A	
33	0.2 SB	0	D A	
34	0	0	D A	
35	1.2 RB (Phlo.)	0 1/2 Pgs	D A	
36	0.2 GF	1/3 Pgs	D A	
37	0.5 GR	2 Pgs	D B	
38	0.5 GR	1/2 Pgs	D B	
39	0	0	D B	
40	0.2 SB	0 1/2 Pgs	D B	
41	0	0	D B	
42	1.2 GR	0 1/2 Pgs	D B	
43	0.4 Carex	1 Pgs	D B	
44	0	0	D B	
45	0.2 SB	0	D B	
46	0.2 SB	1	D B	

42	0.1	Clay	D O D
48	0.3	Clay/grass	D O B
49	0.3	Clay f	b 1/2
50	0.7	Flint	D 1/2 B
51	0.1	Clay/grass	⊙ 0/1/2 D
52	0.3	grass	P 1/2 B
53	0.4	Clay sand	P 0/1/2 D
54		Plaster	
55	0.1	grass	D 1/2 D
56	0.2	Flint/grass	1/2 1/2 D
57			
58	0.2	Clay/grass	1/2 1/2 D B
59	0.3	f/grass	O O B
60	0.2	f/Clay	0/1/2 D B
61	0.5	Clay	1/2 D B
62	0.2	Flint	O D B
63	0.3	f-Clay	1/2 P D
64	0.2	Clay	0/1/2 D B
65	0.5	Clay	O P B
66	O	O	1/2 D B
67	0.3	Clay-f	O P B
68	0.2	f b	1/3 P D D
69	0.1	b (plaster)	0/1/2 D B
70	0.2	f/b	0/1/2 P B
71	0.5	f b	1/2 P D B
72			

Run	0.8	f plaster	2/3 D B
	0.2	plaster	1/2 D B
	0.2	Flint	1/2 D B
	0.6		
	O	O	1/3 D B
	0.2	F	P B
	0.2	Flint	O P B
	0.2	f b	1/3 D B
Run	0.2	f b	2/3 D C
	0.2	f	O D C
	0.2	f b	O D C
	0.2	f	1/2 D C
	0.5	f b	1/2 D
	O	O	1/2 D C
Run	0.5	plaster	⊙ D C
	0.2	Grass/plaster	2/3 D C
	0.2	Grass f	1/2 D C
	0.3	Grass-grass	O D C
	0.5	GF	O D C
Run	1.2	Grass	O D C
	O	O	O D C
	0.2	Grass	0/2 P C
	0.3	Grass	0.4 P C
	0.6	Flint	1/2 P C
	0.4	O	0/2 D C
	0.8	G (pl.)	O D

Row

GO/2	Platan	O	P	C
0.5	G-Platan	1 Day	D	C
0.1/00	F (B.L.)	0	D	C
0	0	0	D	C

0	0	0	D	C
0.2	0	0	D	C
0.2	G	1 Py	D	C

0	0	0	D	C
0.3	G	0	D	C
0.1	F6 (pauk)	0	D	C
0.1	G	0	D	C
0.3	G	0	D	C

0.4	G	0	D	C
0.8	G	0	D	C

0.3	G	0	D	C
-----	---	---	---	---

0.2	Pl/gr	0	D	C
-----	-------	---	---	---

0.0	0	0	D	C
-----	---	---	---	---

0	0	0	D	C
---	---	---	---	---

0	G/3	0	D	C
---	-----	---	---	---

0.4	0	0	D	C
-----	---	---	---	---

0.3	G	0	D	C
-----	---	---	---	---

0.3	P/	0	D	C
-----	----	---	---	---

0.3	0	0	D	C
-----	---	---	---	---

0.4	S/6	0	D	C
-----	-----	---	---	---

Row 1

O.1	Grass	O	D	C
0	0	0	D	C
0	0	0	D	C
0	0	0	D	C

0.2	0	0	D	C
0	0	0	D	C

0.2	Grass	0	D	C
-----	-------	---	---	---

0.3	Grass	0	D	C
-----	-------	---	---	---

0	0	0	D	C
0.2	S	0	D	C

0.3	S	0	D	C
0.3	S	0	D	C

0	0	0	D	C
0.3	F	0	D	C

0.2	S	0	D	C
-----	---	---	---	---

0.2	S	0	D	C
-----	---	---	---	---

0.2	S	0	D	C
-----	---	---	---	---

0.3	Grass	0	D	C
-----	-------	---	---	---

0.2	Grass	0	D	C
-----	-------	---	---	---

0.3	F	0	D	C
-----	---	---	---	---

0.2	S/F	0	D	C
-----	-----	---	---	---

0.3	S	0	D	C
-----	---	---	---	---

0.2	S	0	D	C
-----	---	---	---	---

0	0	0	D	C
---	---	---	---	---

0	0	0	D	C
---	---	---	---	---

85

0

0

ed 10¹⁰⁰ D D

0.01

F

2 Pailh DD

0.5

Pl.

1 V 10 D P

0.3

>

1 P 5 D D

0.3

6

0/2m D D

Row

0.2

>

0 0 D D

0.3

S 6 F

0 0/10 D D

0.3

S 6 F

0 0 D D

0.3

S 6 F

1 P 5 D D

0.2

S 6 F

10/10 D D

0

0

0 D D

0.3

S 6 F

0 D D

0

0

0 D D

0

0

0 D D

0

0

0 D D

0.4

S 6 F

10 D D

0

0

10 D D

0.6

R

1 P 5 S

0.8

R

0 S P

1.0

R

0 S P

1.0

R

0 S P

0

0

0 S P

1.2

R

10 D D

0

0

0 D D

0.3

S

0 D D

Plant notes

White umbelliferum

Water hemlock

120 cross water hemlock

c. c. c. c.

3m 10 10 10 10 10 10

Maulate

2m 10 10 10 10 10 10

Scutellaria v. c. c. c.

0 10 10 10 10 10 10

0 10 10 10 10 10 10

3m

2m

Rum polystachyon

unc. ann. 10 10

0 10 10 10 10 10 10

Suberula cradensis

P. Noctua vulgaris

S. v. c. c. c.

Rumulus acris

M. m. d. c. c. c.

M. m. d. c. c. c.

Water hemlock

10 10 10 10 10 10

0 10 10 10 10 10 10

0 10 10 10 10 10 10

0 10 10 10 10 10 10

Large Sedge Crosses =

1 Very large Sedge?

1 smaller more gracile sedge

that has 20

Flowering parts

plus a mixed plant-like

thing

Big Beaver

Veg sample continued

0.8 S O M 3

O O S 3

0.5 F6 O D 3

0.6 F6 1 B 3

O D 3

0.6 G O D 3

0.4 G O D 3

0.5 G O D 3

0.2 S O D 3

0.2 F6 (G) O D 3

0.4 F O M 3

0.5 (higher) O M 3

0.5 F 1 h/low S 3

0.2 F S O 1/2 S 3

0.6 F 1/2 S 3

2

6

3

3

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

4

0.3

F

O

M

3

0.5

F

O

M

3

0.3

F-(G)

O

M

3

0.5

G (low)

O

M

3

0.1

G (low)

O

M

4

0.6

F

O

D

4

0.4

F-6

O

M

4

0.6

F (low)

O

M

4

0.4

G

O

M

4

0.1

G (1)

WBS

M

4

0.4

G

O

S

4

0.5

S

O

S

4

0.6

G?

O

S

4

0.3

F

O

M

4

0.5

F

O

D

4

0.1

F6 (1)

O

D

4

0.3

F6 (1)

O

M

4

0.4

G = J

O

S

4

0.5

F

O

S

4

0.0

F

O

1/2

4

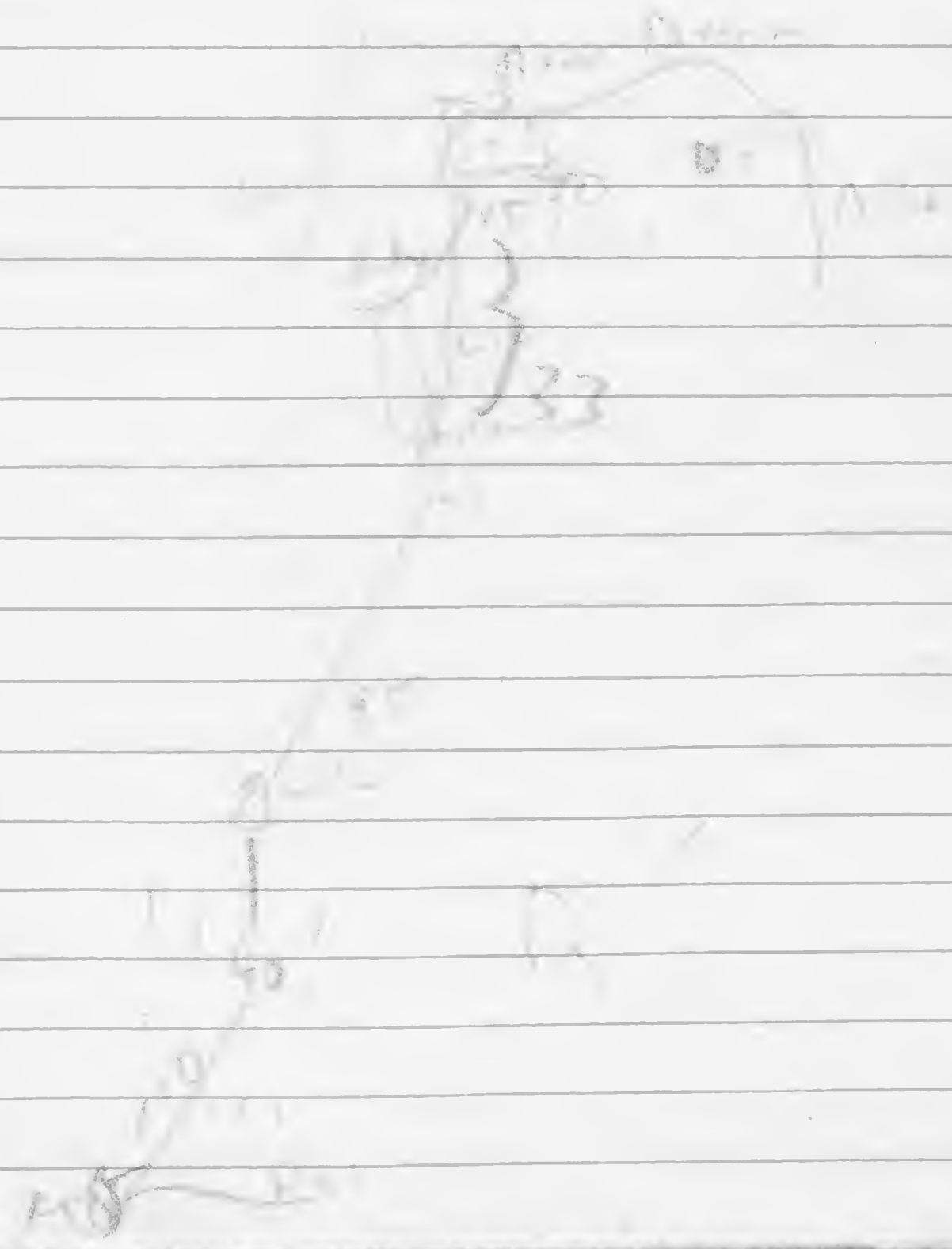
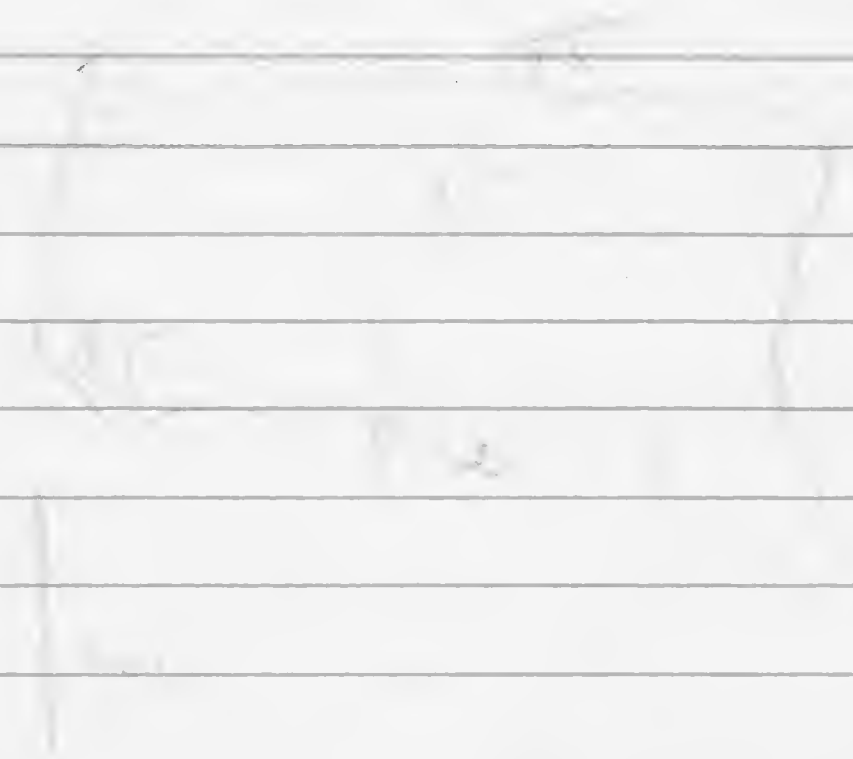
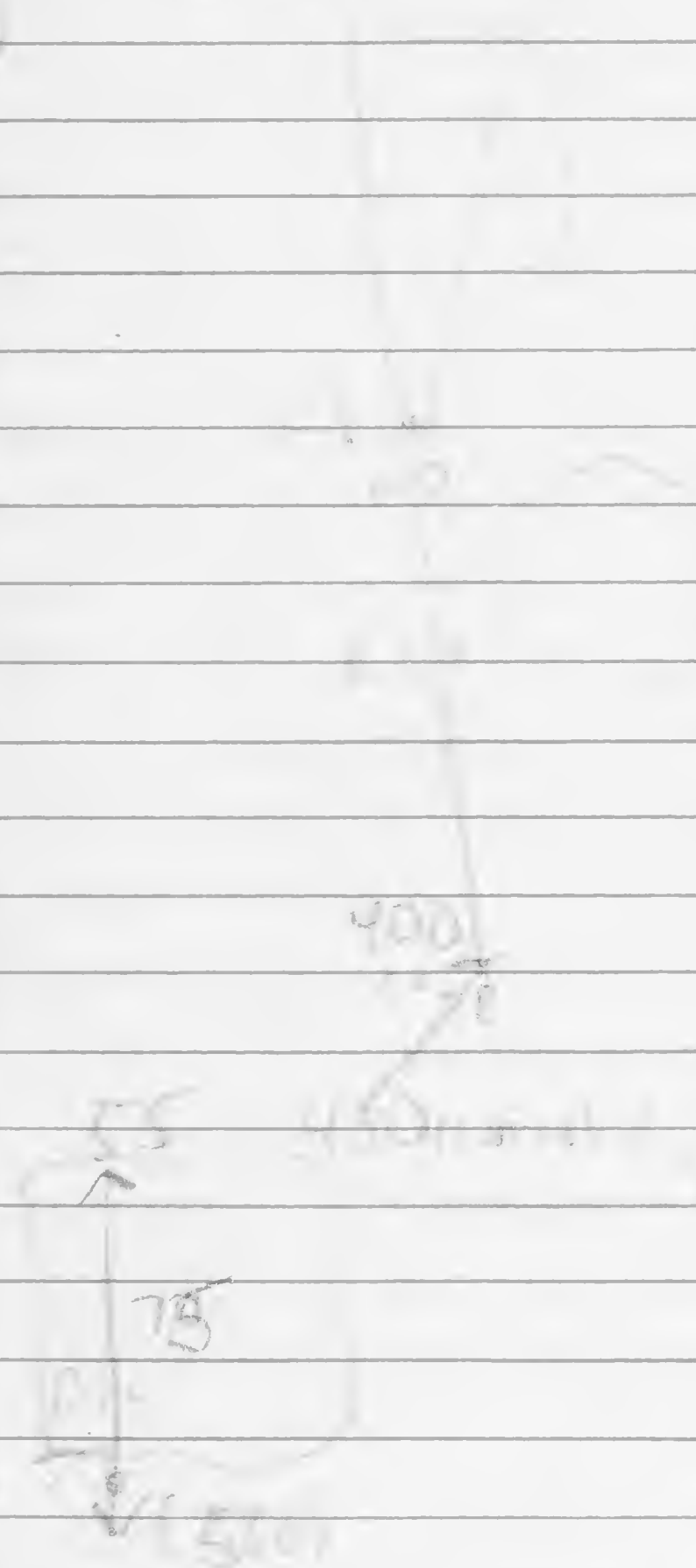
(continued at bottom of page 5)

O.3	S		P.D.
O	O	O	M.D.
O	O	O	M.D.
O	O	O	M.A.
1.2	R	O	1" P.R.G.
1.2	R	O	1" P.R.G.
O	O	O	1.2" D
O	O	O	S D
O	O	O	D.M. S D
O	O	O	" M.D.
O	O	O	1/4" S b
O	O	O	" M.S. E
O	O	O	1 SP. S E
O	O	O	1/2 sp S L
O	O	O	S +
O	O	O	"P.D. S E
O	O	O	O S L
O	O	O	O M E
O	O	O	O M E
O	O	O	O O Z
O	O	O	O M E
O	O	O	1 Feed S E.R.G.
1.2	R →	O	tall 1/2" E.R.G.
1.0	R	O	O 1" E.R.G.
1.2	R	O	O S R
1.0	R	O	O 1/2 R.O.

Time	Speed	Altitude	Direction	Remarks
0.0	0	0	0	0
0.1	0	0	0	0
0.2	0	0	0	0
0.3	0	0	0	0
0.4	0	0	0	0
0.5	0	0	0	0
0.6	0	0	0	0
0.7	0	0	0	0
0.8	0	0	0	0
0.9	0	0	0	0
1.0	0	0	0	0
1.1	0	0	0	0
1.2	0	0	0	0
1.3	0	0	0	0
1.4	0	0	0	0
1.5	0	0	0	0
1.6	0	0	0	0
1.7	0	0	0	0
1.8	0	0	0	0
1.9	0	0	0	0
2.0	0	0	0	0
2.1	0	0	0	0
2.2	0	0	0	0
2.3	0	0	0	0
2.4	0	0	0	0
2.5	0	0	0	0
2.6	0	0	0	0
2.7	0	0	0	0
2.8	0	0	0	0
2.9	0	0	0	0
3.0	0	0	0	0
3.1	0	0	0	0
3.2	0	0	0	0
3.3	0	0	0	0
3.4	0	0	0	0
3.5	0	0	0	0
3.6	0	0	0	0
3.7	0	0	0	0
3.8	0	0	0	0
3.9	0	0	0	0
4.0	0	0	0	0
4.1	0	0	0	0
4.2	0	0	0	0
4.3	0	0	0	0
4.4	0	0	0	0
4.5	0	0	0	0
4.6	0	0	0	0
4.7	0	0	0	0
4.8	0	0	0	0
4.9	0	0	0	0
5.0	0	0	0	0
5.1	0	0	0	0
5.2	0	0	0	0
5.3	0	0	0	0
5.4	0	0	0	0
5.5	0	0	0	0
5.6	0	0	0	0
5.7	0	0	0	0
5.8	0	0	0	0
5.9	0	0	0	0
6.0	0	0	0	0
6.1	0	0	0	0
6.2	0	0	0	0
6.3	0	0	0	0
6.4	0	0	0	0
6.5	0	0	0	0
6.6	0	0	0	0
6.7	0	0	0	0
6.8	0	0	0	0
6.9	0	0	0	0
7.0	0	0	0	0
7.1	0	0	0	0
7.2	0	0	0	0
7.3	0	0	0	0
7.4	0	0	0	0
7.5	0	0	0	0
7.6	0	0	0	0
7.7	0	0	0	0
7.8	0	0	0	0
7.9	0	0	0	0
8.0	0	0	0	0
8.1	0	0	0	0
8.2	0	0	0	0
8.3	0	0	0	0
8.4	0	0	0	0
8.5	0	0	0	0
8.6	0	0	0	0
8.7	0	0	0	0
8.8	0	0	0	0
8.9	0	0	0	0
9.0	0	0	0	0
9.1	0	0	0	

59

Page 1



Minimum

[Faint handwritten notes and diagrams, possibly a sketch of a bird or insect.]

0.7	Subopress	0	AD	E
"	"	"	m	F
"	"	P	m	E
0.6	Supress	0	AD	E
"	"	"	"	"
"	"	"	m	"
0	"	"	"	"
1.0	Supress	"	"	"

Thurs do m... ..

insect sampling

Swamp

Finish netting adults

Thurs do do July

1.5	Supress	0	AD	E
"	"	"	"	"
0.7	F	0	AD	E
0.6	Supress	"	AD	E
1.5	"	"	AD	E
0.7	Supress	0	AD	E
0.8	Supress	"	AD	E
0	"	"	AD	E

July 1st - 1st
 # (or 2) 5 x 5-10 m flw
 1. 1 m flw
 2. 1 m flw
 3. 1 m flw
 4. 1 m flw
 5. 1 m flw
 6. 1 m flw
 7. 1 m flw
 8. 1 m flw
 9. 1 m flw
 10. 1 m flw

Swamp 3 3 flw 1 m flw 1 m flw

7 m
 1 m

1. 10 to 15

Top of water away
Soil temperature

1. From soil & surface

in the form of

liquid particles

of water molecules

2. Liquid molecules, the

they are liquid by
parts

Re

3. Change of water level

at various times

Water & air
distribution

water molecules
& particles

From water, surface

downward, then

that

Active going to be

in hot water? or

is just a lot of

hot air?

As into air, molecules of

consequence of surface

distribution

When the surface is disturbed

the water level

remains at

the same level

